

# Data Tables

<http://www.epa.gov/oar/aqtrnd03/appenda.pdf>

**Table A-1a.** National Air Quality Trends Statistics for Criteria Pollutants, 1981–1990

Statistic	# of Sites	Units	Percentile	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
<b>Carbon Monoxide</b>													
2nd Max. 8-hr.	321	ppm	95th	15.2	15.3	15.3	13.8	12.7	12.2	11.6	11.3	10.9	10.2
2nd Max. 8-hr.	321	ppm	90th	12.9	12.8	12.4	11.9	11.0	11.0	9.7	9.9	9.6	8.8
2nd Max. 8-hr.	321	ppm	75th	10.6	10.0	9.8	9.9	8.9	8.9	8.3	7.8	7.8	7.2
2nd Max. 8-hr.	321	ppm	50th	7.7	7.4	7.3	7.3	6.3	6.7	6.3	6.0	6.0	5.5
2nd Max. 8-hr.	321	ppm	25th	5.6	5.5	5.2	5.2	4.9	5.0	4.7	4.5	4.5	4.3
2nd Max. 8-hr.	321	ppm	10th	4.2	4.3	4.0	4.2	3.8	3.9	3.7	3.5	3.6	3.3
2nd Max. 8-hr.	321	ppm	5th	3.7	3.6	3.4	3.5	3.4	3.3	3.3	3.1	2.9	2.9
2nd Max. 8-hr.	321	ppm	Arith. Mean	8.4	8.1	7.9	7.8	7.1	7.2	6.7	6.4	6.4	5.9
<b>Lead</b>													
Max. Qtr. AM	228	ppm	95th	1.39	1.31	1.04	1.03	0.70	0.41	0.31	0.29	0.23	0.17
Max. Qtr. AM	228	ppm	90th	1.02	0.96	0.77	0.72	0.56	0.30	0.21	0.20	0.15	0.13
Max. Qtr. AM	228	ppm	75th	0.61	0.69	0.55	0.50	0.32	0.19	0.13	0.11	0.10	0.08
Max. Qtr. AM	228	ppm	50th	0.41	0.43	0.37	0.33	0.21	0.12	0.09	0.07	0.06	0.05
Max. Qtr. AM	228	ppm	25th	0.28	0.28	0.24	0.23	0.14	0.08	0.06	0.04	0.04	0.03
Max. Qtr. AM	228	ppm	10th	0.20	0.18	0.16	0.15	0.10	0.06	0.04	0.02	0.03	0.02
Max. Qtr. AM	228	ppm	5th	0.15	0.14	0.13	0.12	0.07	0.05	0.03	0.02	0.02	0.01
Max. Qtr. AM	228	ppm	Arith. Mean	0.58	0.58	0.47	0.45	0.28	0.18	0.13	0.12	0.10	0.08
<b>Nitrogen Dioxide</b>													
Arith. Mean	169	ppm	95th	0.051	0.050	0.046	0.046	0.048	0.050	0.043	0.048	0.045	0.042
Arith. Mean	169	ppm	90th	0.041	0.039	0.038	0.040	0.039	0.036	0.038	0.038	0.038	0.035
Arith. Mean	169	ppm	75th	0.028	0.029	0.028	0.029	0.029	0.029	0.028	0.029	0.029	0.028
Arith. Mean	169	ppm	50th	0.021	0.021	0.022	0.023	0.022	0.022	0.022	0.023	0.022	0.020
Arith. Mean	169	ppm	25th	0.016	0.016	0.016	0.016	0.017	0.016	0.017	0.017	0.016	0.015
Arith. Mean	169	ppm	10th	0.009	0.009	0.008	0.009	0.009	0.009	0.010	0.009	0.009	0.009
Arith. Mean	169	ppm	5th	0.006	0.004	0.004	0.004	0.005	0.004	0.004	0.003	0.004	0.004
Arith. Mean	169	ppm	Arith. Mean	0.024	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.022
<b>Ozone</b>													
2nd Max. 1-hr.	471	ppm	95th	0.220	0.210	0.224	0.204	0.190	0.170	0.183	0.203	0.180	0.170
2nd Max. 1-hr.	471	ppm	90th	0.167	0.161	0.186	0.165	0.160	0.150	0.164	0.181	0.147	0.146
2nd Max. 1-hr.	471	ppm	75th	0.140	0.136	0.150	0.139	0.133	0.130	0.140	0.155	0.124	0.122
2nd Max. 1-hr.	471	ppm	50th	0.116	0.115	0.130	0.114	0.112	0.112	0.118	0.130	0.108	0.109
2nd Max. 1-hr.	471	ppm	25th	0.100	0.100	0.110	0.100	0.098	0.099	0.104	0.110	0.098	0.096
2nd Max. 1-hr.	471	ppm	10th	0.090	0.087	0.095	0.090	0.088	0.086	0.090	0.097	0.086	0.084
2nd Max. 1-hr.	471	ppm	5th	0.080	0.080	0.086	0.081	0.078	0.080	0.087	0.088	0.080	0.077
2nd Max. 1-hr.	471	ppm	Arith. Mean	0.126	0.125	0.137	0.125	0.123	0.118	0.125	0.136	0.116	0.114
4th Max. 8-hr.	468	ppm	95th	0.133	0.131	0.145	0.132	0.134	0.123	0.128	0.141	0.122	0.116
4th Max. 8-hr.	468	ppm	90th	0.116	0.115	0.126	0.113	0.113	0.107	0.116	0.129	0.106	0.106
4th Max. 8-hr.	468	ppm	75th	0.101	0.098	0.110	0.100	0.097	0.095	0.102	0.116	0.093	0.094
4th Max. 8-hr.	468	ppm	50th	0.088	0.088	0.097	0.088	0.087	0.085	0.091	0.102	0.084	0.083
4th Max. 8-hr.	468	ppm	25th	0.077	0.076	0.083	0.077	0.078	0.076	0.080	0.087	0.076	0.075
4th Max. 8-hr.	468	ppm	10th	0.065	0.065	0.070	0.067	0.068	0.068	0.071	0.076	0.068	0.066
4th Max. 8-hr.	468	ppm	5th	0.057	0.058	0.064	0.061	0.062	0.061	0.067	0.067	0.063	0.059
4th Max. 8-hr.	468	ppm	Arith. Mean	0.091	0.090	0.099	0.091	0.091	0.088	0.093	0.102	0.087	0.085

**Table A-1a.** National Air Quality Trends Statistics for Criteria Pollutants, 1981–1990 (continued)

Statistic	# of Sites	Units	Percentile	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
<b><i>PM<sub>10</sub></i></b>													
Annual Avg.	—	µg/m <sup>3</sup>	95th	—	—	—	—	—	—	—	—	—	—
Annual Avg.	—	µg/m <sup>3</sup>	90th	—	—	—	—	—	—	—	—	—	—
Annual Avg.	—	µg/m <sup>3</sup>	75th	—	—	—	—	—	—	—	—	—	—
Annual Avg.	—	µg/m <sup>3</sup>	50th	—	—	—	—	—	—	—	—	—	—
Annual Avg.	—	µg/m <sup>3</sup>	25th	—	—	—	—	—	—	—	—	—	—
Annual Avg.	—	µg/m <sup>3</sup>	10th	—	—	—	—	—	—	—	—	—	—
Annual Avg.	—	µg/m <sup>3</sup>	5th	—	—	—	—	—	—	—	—	—	—
Annual Avg.	—	µg/m <sup>3</sup>	Arith. Mean	—	—	—	—	—	—	—	—	—	—
<b><i>Sulfur Dioxide</i></b>													
Arith. Mean	456	ppm	95th	0.0223	0.0199	0.0184	0.0193	0.0186	0.0180	0.0169	0.0182	0.0176	0.0160
Arith. Mean	456	ppm	90th	0.0186	0.0165	0.0152	0.0164	0.0160	0.0147	0.0142	0.0150	0.0148	0.0137
Arith. Mean	456	ppm	75th	0.0134	0.0123	0.0121	0.0126	0.0117	0.0118	0.0114	0.0113	0.0114	0.0103
Arith. Mean	456	ppm	50th	0.0091	0.0087	0.0086	0.0089	0.0087	0.0083	0.0082	0.0082	0.0080	0.0074
Arith. Mean	456	ppm	25th	0.0061	0.0058	0.0058	0.0055	0.0053	0.0052	0.0051	0.0050	0.0047	0.0045
Arith. Mean	456	ppm	10th	0.0028	0.0030	0.0028	0.0028	0.0026	0.0024	0.0024	0.0025	0.0023	0.0022
Arith. Mean	456	ppm	5th	0.0018	0.0015	0.0016	0.0017	0.0018	0.0016	0.0016	0.0019	0.0017	0.0016
Arith. Mean	456	ppm	Arith. Mean	0.0102	0.0095	0.0093	0.0095	0.0090	0.0088	0.0086	0.0087	0.0085	0.0079
2nd Max. 24-hr.	—	ppm	95th	—	—	—	—	—	—	—	—	—	—
2nd Max. 24-hr.	—	ppm	90th	—	—	—	—	—	—	—	—	—	—
2nd Max. 24-hr.	—	ppm	75th	—	—	—	—	—	—	—	—	—	—
2nd Max. 24-hr.	—	ppm	50th	—	—	—	—	—	—	—	—	—	—
2nd Max. 24-hr.	—	ppm	25th	—	—	—	—	—	—	—	—	—	—
2nd Max. 24-hr.	—	ppm	10th	—	—	—	—	—	—	—	—	—	—
2nd Max. 24-hr.	—	ppm	5th	—	—	—	—	—	—	—	—	—	—
2nd Max. 24-hr.	—	ppm	Arith. Mean	—	—	—	—	—	—	—	—	—	—

**Table A-1b.** National Air Quality Trends Statistics for Criteria Pollutants, 1991–2000

Statistic	# of Sites	Units	Percentile	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
<b>Carbon Monoxide</b>													
2nd Max. 8-hr.	327	ppm	95th	9.8	8.9	8.5	8.3	7.9	7.7	6.9	7.0	6.5	6.1
2nd Max. 8-hr.	327	ppm	90th	8.9	8.0	7.4	7.7	7.0	6.7	6.2	5.8	5.6	5.1
2nd Max. 8-hr.	327	ppm	75th	7.1	6.6	6.2	6.3	5.7	5.2	5.0	4.7	4.5	4.1
2nd Max. 8-hr.	327	ppm	50th	5.3	5.0	4.8	5.0	4.4	4.0	3.8	3.6	3.6	3.2
2nd Max. 8-hr.	327	ppm	25th	4.0	3.8	3.6	3.9	3.3	3.0	2.9	2.8	2.6	2.4
2nd Max. 8-hr.	327	ppm	10th	2.8	2.8	2.8	2.7	2.5	2.3	2.1	2.1	1.9	1.8
2nd Max. 8-hr.	327	ppm	5th	2.1	2.2	2.1	2.1	2.2	1.9	1.7	1.8	1.6	1.4
2nd Max. 8-hr.	327	ppm	Arith. Mean	5.6	5.3	5.0	5.1	4.6	4.3	4.1	3.9	3.7	3.4
<b>Lead</b>													
Max. Qtr. AM	130	ppm	95th	0.38	0.23	0.18	0.16	0.18	0.15	0.12	0.14	0.10	0.11
Max. Qtr. AM	130	ppm	90th	0.19	0.15	0.12	0.12	0.10	0.10	0.09	0.10	0.09	0.09
Max. Qtr. AM	130	ppm	75th	0.08	0.07	0.07	0.06	0.05	0.05	0.05	0.05	0.05	0.05
Max. Qtr. AM	130	ppm	50th	0.04	0.04	0.04	0.03	0.03	0.03	0.03	0.03	0.02	0.02
Max. Qtr. AM	130	ppm	25th	0.03	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01
Max. Qtr. AM	130	ppm	10th	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Max. Qtr. AM	130	ppm	5th	0.01	0.01	0.01	0.01	0.01	0.00	0.01	0.01	0.01	0.01
Max. Qtr. AM	130	ppm	Arith. Mean	0.08	0.07	0.06	0.05	0.05	0.05	0.04	0.04	0.04	0.04
<b>Nitrogen Dioxide</b>													
Arith. Mean	234	ppm	95th	0.043	0.038	0.037	0.040	0.039	0.037	0.034	0.035	0.035	0.033
Arith. Mean	234	ppm	90th	0.032	0.032	0.031	0.032	0.031	0.031	0.029	0.030	0.029	0.028
Arith. Mean	234	ppm	75th	0.025	0.024	0.024	0.024	0.023	0.023	0.022	0.023	0.023	0.021
Arith. Mean	234	ppm	50th	0.018	0.018	0.018	0.019	0.018	0.018	0.017	0.017	0.017	0.017
Arith. Mean	234	ppm	25th	0.012	0.013	0.013	0.013	0.012	0.012	0.012	0.012	0.013	0.012
Arith. Mean	234	ppm	10th	0.008	0.008	0.008	0.008	0.007	0.007	0.008	0.007	0.008	0.008
Arith. Mean	234	ppm	5th	0.005	0.005	0.005	0.005	0.005	0.005	0.004	0.005	0.005	0.005
Arith. Mean	234	ppm	Arith. Mean	0.019	0.019	0.019	0.020	0.019	0.019	0.018	0.018	0.018	0.017
<b>Ozone</b>													
2nd Max. 1-hr.	738	ppm	95th	0.161	0.152	0.150	0.146	0.149	0.140	0.140	0.147	0.138	0.134
2nd Max. 1-hr.	738	ppm	90th	0.145	0.130	0.135	0.128	0.138	0.125	0.129	0.132	0.130	0.124
2nd Max. 1-hr.	738	ppm	75th	0.121	0.112	0.120	0.116	0.122	0.114	0.115	0.119	0.117	0.111
2nd Max. 1-hr.	738	ppm	50th	0.106	0.100	0.104	0.104	0.110	0.103	0.103	0.109	0.107	0.098
2nd Max. 1-hr.	738	ppm	25th	0.093	0.090	0.091	0.092	0.097	0.093	0.091	0.097	0.096	0.088
2nd Max. 1-hr.	738	ppm	10th	0.081	0.081	0.080	0.082	0.085	0.083	0.080	0.086	0.085	0.079
2nd Max. 1-hr.	738	ppm	5th	0.075	0.075	0.074	0.077	0.078	0.079	0.074	0.076	0.076	0.073
2nd Max. 1-hr.	738	ppm	Arith. Mean	0.111	0.105	0.107	0.106	0.112	0.105	0.104	0.110	0.107	0.100
4th Max. 8-hr.	741	ppm	95th	0.115	0.106	0.108	0.105	0.111	0.102	0.105	0.109	0.105	0.100
4th Max. 8-hr.	741	ppm	90th	0.107	0.096	0.100	0.097	0.106	0.097	0.099	0.102	0.101	0.095
4th Max. 8-hr.	741	ppm	75th	0.095	0.087	0.090	0.090	0.095	0.090	0.091	0.095	0.094	0.087
4th Max. 8-hr.	741	ppm	50th	0.084	0.079	0.081	0.082	0.088	0.082	0.082	0.087	0.087	0.080
4th Max. 8-hr.	741	ppm	25th	0.073	0.072	0.073	0.074	0.077	0.075	0.074	0.078	0.077	0.072
4th Max. 8-hr.	741	ppm	10th	0.063	0.065	0.063	0.067	0.068	0.068	0.065	0.069	0.068	0.064
4th Max. 8-hr.	741	ppm	5th	0.057	0.059	0.058	0.061	0.062	0.062	0.059	0.062	0.061	0.057
4th Max. 8-hr.	741	ppm	Arith. Mean	0.085	0.081	0.082	0.083	0.087	0.083	0.082	0.086	0.086	0.079

**Table A-1b.** National Air Quality Trends Statistics for Criteria Pollutants, 1991–2000 (continued)

Statistic	# of Sites	Units	Percentile	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
<b><i>PM<sub>10</sub></i></b>													
Annual Avg.	886	µg/m <sup>3</sup>	95th	46.4	41.8	41.5	40.0	38.9	37.9	38.1	35.8	39.7	39.0
Annual Avg.	886	µg/m <sup>3</sup>	90th	40.1	36.7	36.6	36.4	34.9	33.6	33.0	31.9	33.2	32.9
Annual Avg.	886	µg/m <sup>3</sup>	75th	33.8	31.3	30.5	30.7	29.1	27.7	27.2	27.5	27.6	27.5
Annual Avg.	886	µg/m <sup>3</sup>	50th	28.2	26.1	25.9	25.6	24.1	23.1	23.1	23.4	23.2	23.1
Annual Avg.	886	µg/m <sup>3</sup>	25th	23.6	22.2	21.1	21.1	19.9	19.4	19.5	19.7	19.1	19.1
Annual Avg.	886	µg/m <sup>3</sup>	10th	18.5	18.0	17.4	16.9	15.9	16.1	16.1	15.3	15.4	15.2
Annual Avg.	886	µg/m <sup>3</sup>	5th	16.1	15.2	14.3	14.1	13.3	13.8	13.4	13.4	13.5	12.7
Annual Avg.	886	µg/m <sup>3</sup>	Arith. Mean	29.4	27.3	26.6	26.4	25.1	24.2	24.1	23.8	24.1	23.8
<b><i>Sulfur Dioxide</i></b>													
Arith. Mean	457	ppm	95th	0.0167	0.0167	0.0159	0.0151	0.0118	0.0113	0.0111	0.0107	0.0105	0.0106
Arith. Mean	457	ppm	90th	0.0145	0.0130	0.0130	0.0125	0.0104	0.0100	0.0094	0.0096	0.0091	0.0090
Arith. Mean	457	ppm	75th	0.0101	0.0096	0.0095	0.0094	0.0077	0.0075	0.0073	0.0074	0.0070	0.0065
Arith. Mean	457	ppm	50th	0.0076	0.0070	0.0068	0.0067	0.0051	0.0054	0.0052	0.0050	0.0049	0.0048
Arith. Mean	457	ppm	25th	0.0046	0.0044	0.0041	0.0039	0.0033	0.0033	0.0032	0.0033	0.0032	0.0030
Arith. Mean	457	ppm	10th	0.0023	0.0023	0.0023	0.0022	0.0019	0.0019	0.0019	0.0020	0.0020	0.0019
Arith. Mean	457	ppm	5th	0.0017	0.0015	0.0016	0.0016	0.0014	0.0015	0.0014	0.0014	0.0015	0.0015
Arith. Mean	457	ppm	Arith. Mean	0.0081	0.0076	0.0074	0.0072	0.0057	0.0057	0.0056	0.0055	0.0053	0.0051
2nd Max. 24-hr.	457	ppm	95th	0.0800	0.0800	0.0730	0.0760	0.0590	0.0610	0.0530	0.0540	0.0530	0.0470
2nd Max. 24-hr.	457	ppm	90th	0.0640	0.0630	0.0600	0.0640	0.0490	0.0480	0.0470	0.0450	0.0430	0.0410
2nd Max. 24-hr.	457	ppm	75th	0.0440	0.0450	0.0420	0.0460	0.0340	0.0330	0.0330	0.0320	0.0290	0.0300
2nd Max. 24-hr.	457	ppm	50th	0.0320	0.0310	0.0290	0.0330	0.0230	0.0230	0.0230	0.0220	0.0210	0.0210
2nd Max. 24-hr.	457	ppm	25th	0.0210	0.0200	0.0190	0.0200	0.0160	0.0150	0.0150	0.0150	0.0140	0.0140
2nd Max. 24-hr.	457	ppm	10th	0.0110	0.0110	0.0110	0.0100	0.0080	0.0090	0.0080	0.0080	0.0080	0.0080
2nd Max. 24-hr.	457	ppm	5th	0.0080	0.0070	0.0070	0.0060	0.0060	0.0060	0.0050	0.0050	0.0060	0.0060
2nd Max. 24-hr.	457	ppm	Arith. Mean	0.0364	0.0353	0.0340	0.0358	0.0267	0.0267	0.0257	0.0247	0.0238	0.0233

**Table A-2.** National Carbon Monoxide Emissions Estimates, 1980, 1985, 1989, 1990, 1991, 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000 (thousand short tons)

Source Category	1980	1985	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Fuel Combustion	7,302	8,485	7,443	5,510	5,856	6,155	5,586	5,519	5,934	4,349	4,336	4,337	4,348	4,590
FUEL COMB. ELEC. UTIL.	322	291	321	363	349	350	363	370	372	409	423	450	424	445
Coal	188	207	233	234	234	236	246	247	250	251	257	242	229	234
Oil	48	18	26	20	19	15	16	15	10	12	14	19	19	18
Gas	85	56	51	51	51	49	53	55	79	84	97	96	96	105
Other	NA	NA	NA	NA	NA	NA	NA	NA	NA	8	9	33	19	26
Internal Combustion	NA	10	11	57	45	47	51	55	58	1,056	1,191	1,163	1,151	1,175
FUEL COMB. INDUSTRIAL	750	670	672	879	920	955	1,043	1,041	1,041	1,041	1,056	1,163	1,151	1,221
Coal	58	86	87	105	101	102	101	100	98	110	109	106	109	110
Oil	35	47	46	74	60	64	66	66	71	54	52	51	52	55
Gas	418	257	271	226	284	300	322	337	345	340	339	336	340	361
Other	239	167	173	279	264	286	287	297	349	333	334	341	355	340
Internal Combustion	NA	113	96	195	208	227	268	251	245	337	330	324	334	340
FUEL COMB. OTHER	6,230	7,525	6,450	4,269	4,587	4,849	4,181	4,108	4,506	2,749	2,750	2,750	2,736	2,924
Commercial/Institutional Coal	13	14	15	14	14	15	15	15	15	14	14	14	15	15
Commercial/Institutional Oil	21	18	17	18	17	18	18	18	19	19	19	20	16	16
Commercial/Institutional Gas	26	42	49	44	44	51	53	54	54	64	65	63	68	69
Misc. Fuel Comb. (Except Residential)	NA	57	55	149	141	141	143	147	145	46	48	49	50	51
Residential Wood	5,992	7,232	6,161	3,781	4,090	4,332	3,679	3,607	3,999	2,351	2,351	2,351	2,351	2,526
fireplaces	5,992	7,232	6,161	3,781	4,090	4,332	3,679	3,607	3,999	1,043	1,043	1,043	1,043	1,118
woodstoves	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,308	1,308	1,308	1,308	1,408
other	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Residential Other	178	162	153	262	281	292	274	268	273	255	255	242	249	246
<b>Industrial Processes</b>	<b>9,250</b>	<b>7,215</b>	<b>7,013</b>	<b>5,852</b>	<b>5,740</b>	<b>5,683</b>	<b>5,898</b>	<b>5,839</b>	<b>5,790</b>	<b>7,187</b>	<b>7,348</b>	<b>7,362</b>	<b>7,343</b>	<b>7,521</b>
CHEMICAL & ALLIED PRODUCT MFG	2,151	1,845	1,925	1,183	1,127	1,112	1,093	1,171	1,223	1,053	1,071	1,081	1,112	96
Organic Chemical Mfg	543	251	285	149	128	131	132	130	127	90	91	92	93	96
ethylene dichloride	17	0	0	0	0	0	0	0	0	0	0	0	0	0
maleic anhydride	103	16	16	3	3	4	4	4	4	0	0	0	0	0
cyclohexanol	37	5	6	0	0	0	0	1	1	0	0	0	0	0
other	386	230	264	146	125	127	128	125	123	89	90	92	92	95
Inorganic Chemical Mfg	191	89	95	133	129	130	131	135	134	120	121	123	125	128
pigments; TiO <sub>2</sub> chloride process; reactor	34	77	84	119	119	119	119	119	117	118	118	120	122	125
other	157	12	12	14	11	12	13	16	15	3	3	3	3	3
Polymer & Resin Mfg	191	19	18	3	6	5	5	5	5	5	5	5	5	5
Agricultural Chemical Mfg	NA	16	17	44	19	19	18	17	17	12	13	13	13	13
Paint, Varnish, Lacquer, Enamel Mfg	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0
Pharmaceutical Mfg	NA	0	0	0	0	0	0	0	0	0	0	0	1	1
Other Chemical Mfg	1,417	1,471	1,510	854	844	827	805	885	939	826	841	847	845	869
carbon black mfg	1,417	1,078	1,112	798	756	736	715	793	845	796	811	818	815	839
carbon black furnace: fugitives	NA	155	180	17	54	57	60	63	65	4	4	4	4	4
other	NA	238	219	39	35	34	30	29	26	26	26	26	26	26
METALS PROCESSING	2,246	2,223	2,132	2,640	2,571	2,496	2,536	2,475	2,380	1,604	1,709	1,702	1,673	1,735
Nonferrous Metals Processing	842	694	677	436	438	432	423	421	424	459	475	465	451	461
aluminum anode baking	421	41	41	47	41	41	41	41	41	22	23	23	23	23
prebake aluminum cell	421	257	254	260	260	260	260	260	260	277	288	281	271	278
other	NA	396	382	135	131	122	120	123	120	164	160	160	157	160

**Table A-2.** National Carbon Monoxide Emissions Estimates, 1980, 1985, 1989–2000 (thousand short tons) (cont.)

Source Category	1980	1985	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Ferrous Metals Processing	1,404	1,523	1,449	2,163	2,108	2,038	2,089	1,930	1,101	1,189	1,193	1,181	1,233	316
basic oxygen furnace	80	694	662	594	731	767	677	561	268	296	301	301	301	316
carbon steel electric arc furnace	280	19	18	45	54	49	58	61	65	65	66	66	69	69
coke oven charging	43	9	9	14	16	17	7	8	4	4	4	4	4	4
gray iron cupola	340	302	280	124	118	114	121	128	120	111	115	106	108	108
iron ore sinter plant/windbox	600	304	293	211	211	211	211	211	46	50	50	50	52	52
other	61	194	187	1,174	979	880	924	945	966	612	659	661	654	683
Metals Processing NEC	NA	6	6	40	25	26	25	25	25	44	46	44	41	41
PETROLEUM & RELATED INDUSTRIES	1,723	462	436	333	345	371	338	348	354	367	366	366	369	369
Oil & Gas Production	NA	11	8	38	18	21	22	35	34	27	27	27	28	28
Petroleum Refineries & Related Industries	1,723	449	427	291	324	345	344	299	309	319	332	332	333	333
fluid catalytic cracking units	1,680	403	390	284	315	333	328	286	299	308	320	319	320	321
other	44	46	37	7	9	13	17	13	10	11	12	12	12	12
Asphalt Manufacturing	NA	2	2	3	4	5	5	5	5	8	8	7	7	7
OTHER INDUSTRIAL PROCESSES	830	694	716	537	548	544	594	600	624	561	582	590	599	620
Agriculture, Food, & Kindred Products	NA	0	0	3	3	3	3	2	6	4	4	4	4	4
Textiles, Leather, & Apparel Products	NA	0	0	0	0	0	0	0	0	0	0	0	0	0
Wood, Pulp & Paper, & Publishing Prod.	798	627	655	473	461	449	453	461	484	356	370	378	388	401
sulfate pulping: rec. furnace/evaporator	NA	475	497	370	360	348	350	355	370	274	285	291	299	309
sulfate (kraft) pulping: lime kiln	798	140	146	87	81	75	78	76	82	50	52	53	55	57
other	NA	12	13	16	21	25	24	30	32	32	33	34	34	36
Rubber & Miscellaneous Plastic Products	NA	0	0	0	0	0	0	0	0	0	0	0	0	0
Mineral Products	32	43	43	54	77	85	131	131	127	180	186	186	185	192
Machinery Products	NA	0	0	0	0	0	0	0	0	1	1	1	1	1
Electronic Equipment	NA	18	12	2	2	2	2	2	2	0	0	0	0	0
Transportation Equipment	NA	0	0	0	0	0	0	0	0	0	0	0	0	0
Miscellaneous Industrial Processes	NA	6	5	5	6	4	4	4	4	19	19	20	20	20
SOLVENT UTILIZATION	NA	2	2	5	5	5	5	5	6	1	2	2	2	2
Degreasing	NA	1	1	0	0	0	0	0	0	0	0	0	0	0
Graphic Arts	NA	0	0	0	0	0	0	0	0	0	0	0	0	0
Dry Cleaning	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0
Surface Coating	NA	0	1	0	1	1	1	1	1	1	1	1	1	1
Other Industrial	NA	0	0	4	4	4	4	4	4	0	0	0	0	0
Nonindustrial	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0
Solvent Utilization NEC	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0	0	0
STORAGE & TRANSPORT	NA	49	55	76	28	17	51	24	25	70	71	72	74	74
Bulk Terminals & Plants	NA	0	0	0	2	0	4	4	4	0	0	0	0	0
Petroleum & Petroleum Product Storage	NA	0	0	0	12	0	32	4	4	0	0	0	0	0
Petroleum & Petroleum Product Transport	NA	0	0	0	0	0	0	0	0	0	0	0	0	0
Service Stations: Stage I	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0	0	0
Service Stations: Stage II	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0	0	0
Organic Chemical Storage	NA	42	49	74	13	13	13	13	13	68	69	70	70	72
Organic Chemical Transport	NA	0	0	0	0	0	0	0	0	0	0	0	0	0
Inorganic Chemical Storage	NA	0	0	0	0	0	0	0	0	0	0	0	0	0
Bulk Materials Storage	NA	6	5	1	3	2	3	1	1	1	1	1	1	1

**Table A-2.** National Carbon Monoxide Emissions Estimates, 1980, 1985, 1989–2000 (thousand short tons) (cont.)

Source Category	1980	1985	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
WASTE DISPOSAL & RECYCLING														
Incineration	2,300	1,941	1,747	1,079	1,116	1,138	1,248	1,225	1,185	3,544	3,549	3,550	3,609	3,609
conical wood burner	1,246	958	876	372	392	404	497	467	432	72	74	77	76	78
municipal incinerator	228	17	19	6	7	6	6	6	6	2	2	2	2	2
industrial	13	34	35	16	17	15	14	14	15	7	7	8	8	8
commercial/institutional	NA	9	9	9	10	10	87	48	10	9	10	10	10	10
residential	60	32	39	19	20	21	21	21	21	22	23	24	24	25
other	945	865	773	294	312	324	340	347	351	0	0	0	0	0
Open Burning	1,054	982	870	706	722	731	749	755	750	3,466	3,466	3,467	3,524	3,524
industrial	1,007	20	21	14	14	15	15	15	15	0	0	0	0	0
commercial/institutional	47	4	5	46	48	50	52	54	52	0	0	0	0	0
residential	NA	958	845	509	516	523	529	533	536	425	425	425	436	436
land clearing debris	NA	NA	NA	NA	NA	NA	NA	NA	NA	2,998	2,998	2,998	3,044	3,044
other	NA	NA	NA	137	144	144	153	153	147	43	43	43	44	44
POTW	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0
Industrial Waste Water	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0
TSDF	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0
Landfills	NA	0	0	0	0	0	0	0	0	0	0	0	0	0
Other	NA	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Transportation</b>	<b>92,538</b>	<b>93,386</b>	<b>83,829</b>	<b>76,635</b>	<b>81,583</b>	<b>80,235</b>	<b>81,224</b>	<b>82,699</b>	<b>75,035</b>	<b>82,631</b>	<b>81,353</b>	<b>80,288</b>	<b>77,821</b>	<b>76,426</b>
ON-ROAD VEHICLES														
Light-Duty Gas Vehicles	78,049	77,387	66,050	58,444	62,999	61,236	61,833	62,903	54,811	54,388	53,315	52,360	49,740	48,469
motorcycles	49,273	49,451	42,234	34,996	35,680	33,761	33,185	33,317	29,787	29,163	28,639	28,420	26,685	26,718
light-duty gas vehicles	53,342	42,047	34,806	35,503	33,582	32,995	33,122	29,601	28,974	28,449	28,225	26,502	26,519	
Light-Duty Gas Trucks	219	178	187	190	177	179	190	195	187	187	191	195	183	199
motorcycles	16,137	18,960	15,940	17,118	20,622	21,536	22,795	22,614	19,434	16,873	16,949	16,948	16,532	15,837
light-duty gas trucks <sup>1</sup>	10,395	11,834	9,034	9,672	11,606	12,065	12,647	12,428	11,029	11,221	11,296	11,315	11,111	10,732
light-duty gas trucks <sup>2</sup>	5,742	7,126	6,906	7,446	9,016	9,471	10,148	10,186	8,405	5,652	5,652	5,634	5,421	5,105
Heavy-Duty Gas Vehicles	7,189	7,716	6,506	5,029	5,369	4,586	4,483	5,523	4,103	6,260	5,549	4,782	4,264	3,680
Diesels	1,161	1,261	1,369	1,301	1,327	1,353	1,370	1,449	1,487	2,093	2,178	2,210	2,260	2,234
heavy-duty diesel vehicles	1,139	1,235	1,336	1,233	1,292	1,317	1,333	1,411	1,447	2,074	2,162	2,197	2,249	2,223
light-duty diesel trucks	4	4	6	46	8	9	10	10	7	6	5	4	4	
light-duty diesel vehicles	19	22	28	27	27	28	29	29	12	10	8	7	6	
NON-ROAD ENGINES AND VEHICLES														
Non-Road Gasoline	14,489	15,999	17,779	18,191	18,585	18,999	19,391	19,796	20,224	28,243	28,038	27,928	28,081	27,957
recreational	12,760	13,659	15,021	15,394	15,738	16,081	16,424	16,765	17,112	25,432	25,210	25,098	25,087	24,980
construction	527	603	603	602	602	602	602	602	602	723	688	674	671	668
industrial	709	807	740	723	707	690	674	657	640	864	823	793	826	796
lawn & garden	6,764	7,166	8,023	8,237	8,451	8,665	9,094	9,308	11,330	11,243	11,073	11,148	11,148	11,057
farm	338	372	407	416	424	433	442	450	459	340	343	346	359	360
light commercial	2,095	2,263	2,754	2,877	3,000	3,123	3,246	3,369	3,491	3,992	4,061	4,138	4,062	4,051
logging	28	31	47	50	54	58	62	66	69	1,160	1,012	1,016	1,067	1,105
airport service	9	10	10	10	10	9	9	9	9	9	9	9	9	9
railway maintenance	NA	5	6	6	6	6	6	6	7	7	7	7	7	6
recreational marine vessels	1,990	2,112	2,117	2,122	2,128	2,133	2,138	2,144	2,211	2,228	2,244	2,244	2,144	2,137

**Table A-2.** National Carbon Monoxide Emissions Estimates, 1980, 1985, 1989–2000 (thousand short tons) (cont.)

Source Category	1980	1985	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Non-Road Diesel	829	900	1,062	1,098	1,134	1,169	1,204	1,238	1,269	1,386	1,377	1,352	1,300	1,242
recreational	2	3	3	3	3	3	3	3	3	5	5	5	5	4
construction	479	534	637	662	688	714	739	763	785	878	869	846	802	754
industrial	83	105	121	124	127	130	134	138	142	149	151	151	151	151
lawn & garden	13	14	26	29	32	34	37	39	42	47	50	53	53	49
farm	174	142	163	166	168	170	172	174	175	165	163	161	157	153
light commercial	28	34	44	46	48	49	51	52	54	62	64	67	72	77
logging	49	61	58	58	58	57	57	56	55	63	58	52	46	40
airport service	1	2	3	4	4	5	5	5	6	7	7	8	8	8
railway maintenance	NA	1	2	2	2	2	2	3	3	3	3	3	3	3
recreational marine vessels	NA	3	4	4	4	4	4	4	5	5	7	7	4	4
Aircraft	743	831	955	904	888	901	905	915	942	942	942	942	942	942
Marine Vessels	62	73	98	129	136	132	126	127	127	138	139	140	140	141
coal	4	5	7	4	4	4	4	5	4	NA	NA	NA	NA	NA
diesel	57	67	90	80	83	79	75	76	77	131	131	131	131	133
residual oil	1	1	2	11	11	12	12	12	10	8	8	8	8	8
gasoline	NA	NA	NA	NA	2	2	2	2	2	NA	NA	NA	NA	NA
other	NA	NA	NA	NA	31	36	35	33	33	34	0	0	0	0
Railroads	96	106	121	121	120	125	120	114	114	117	121	120	119	119
Non-Road Other	NA	430	522	545	568	591	614	637	660	810	831	858	1,075	1,110
liquefied petroleum gas	NA	288	376	398	420	442	464	486	508	704	724	749	950	983
compressed natural gas	NA	142	146	147	148	149	150	151	152	106	108	109	125	127
MISCELLANEOUS	8,344	7,927	8,153	11,122	8,618	6,934	7,082	9,656	7,298	10,472	12,474	9,303	12,886	20,806
Agriculture & Forestry	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0	0	0
Other Combustion	8,344	7,927	8,153	11,122	8,618	6,934	7,082	9,656	7,298	10,472	12,474	9,303	12,885	20,806
structural fires	217	242	242	78	80	81	82	83	84	18	18	18	18	18
agricultural fires	501	396	571	415	413	421	415	441	465	454	464	471	479	489
slash/prescribed burning	2,226	4,332	4,332	4,668	4,666	4,729	4,966	4,990	5,252	5,402	5,769	6,152	3,967	2,397
forest wildfires	5,396	2,957	3,009	5,928	3,430	1,674	1,586	4,114	1,469	4,574	6,200	2,638	8,398	17,878
other	4	NA	NA	NA	32	28	30	34	28	22	23	23	24	24
Health Services	NA	NA	NA	0	NA	NA	NA	NA	0	0	0	0	0	0
Cooling Towers	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0
Fugitive Dust	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0
<b>TOTAL ALL SOURCES</b>	<b>117,434</b>	<b>117,013</b>	<b>106,439</b>	<b>99,119</b>	<b>101,797</b>	<b>99,007</b>	<b>99,791</b>	<b>103,713</b>	<b>94,058</b>	<b>104,639</b>	<b>105,511</b>	<b>101,290</b>	<b>102,398</b>	<b>109,343</b>

**Note:** Some columns may not sum to totals due to rounding.

**Table A-3.** National Lead Emissions Estimates, 1980, 1985, 1989, 1990, 1991, 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000

Source Category	1980	1985	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Fuel Combustion	4,299	515	505	500	495	491	497	496	490	492	493	494	501	501
FUEL COMB. ELEC. UTIL.														
Coal	129	64	67	64	61	59	62	62	57	61	64	69	72	72
bituminous	95	51	46	46	46	47	50	50	50	53	54	55	56	56
subbituminous	57	31	28	28	28	28	30	30	30	32	33	33	34	34
anthracite & lignite	28	15	14	14	14	14	15	15	15	16	16	17	17	17
Oil	9	5	4	4	4	4	5	5	5	5	5	5	5	5
residual	34	13	21	18	15	12	12	12	7	8	10	14	16	16
distillate	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FUEL COMB. INDUSTRIAL														
Coal	60	30	18	18	18	18	19	19	18	16	16	15	17	17
bituminous	45	22	14	14	15	14	14	14	14	13	14	13	13	13
subbituminous	31	15	10	10	10	10	10	10	10	9	9	9	9	9
anthracite & lignite	10	5	3	3	3	3	3	3	3	3	3	3	3	3
Oil	4	2	1	1	1	1	1	1	1	1	1	1	1	1
residual	14	8	4	3	3	4	5	5	4	3	2	2	3	3
distillate	1	1	1	1	1	1	1	1	1	1	1	1	1	1
FUEL COMB. OTHER														
Commercial/Institutional Coal	4,111	421	420	418	416	414	416	415	415	415	413	410	412	412
bituminous	6	6	4	4	3	4	4	3	4	5	5	4	4	4
subbituminous	2	1	1	1	1	1	1	1	1	1	1	1	1	1
anthracite, lignite	4	1	1	0	0	0	0	1	0	1	1	1	1	1
Commercial/Institutional Oil	10	4	4	4	4	4	4	4	4	3	3	2	2	2
residual	9	3	3	3	3	3	3	3	3	2	2	1	1	1
distillate	1	1	1	1	1	1	1	1	1	1	1	1	1	1
other	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0	0
Misc. Fuel Comb. (Except Residential)	4,080	400	400	400	400	400	400	400	400	400	400	400	400	400
Residential Other	9	11	12	10	9	7	8	8	8	7	6	5	5	5
Industrial Processes	5,148	3,402	3,161	3,278	3,081	2,736	2,872	3,007	2,875	3,061	3,121	3,045	3,162	3,162
CHEMICAL & ALLIED PRODUCT MFG	104	118	136	136	132	93	92	96	163	167	188	194	218	218
Inorganic Chemical Mfg	104	118	136	136	132	93	92	96	163	167	188	194	218	218
lead oxide and pigments	104	118	136	136	132	93	92	96	163	167	188	194	218	218
METALS PROCESSING	3,026	2,097	2,088	2,170	1,974	1,774	1,900	2,027	2,049	2,055	2,081	1,991	2,078	2,078
Nonferrous Metals Processing	1,826	1,376	1,337	1,409	1,258	1,112	1,210	1,287	1,337	1,333	1,342	1,259	1,329	1,329
primary lead production	1,075	874	715	728	623	550	637	633	674	588	619	608	623	623
primary copper production	20	19	19	19	19	20	21	22	21	22	24	25	25	25
primary zinc production	24	16	9	9	11	11	13	12	12	13	13	12	12	12
secondary lead production	481	288	433	449	414	336	341	405	432	514	484	413	465	465
secondary copper production	116	70	37	75	65	73	70	76	79	76	82	78	81	81
lead battery manufacture	50	65	74	78	77	81	94	102	103	107	110	117	117	117
lead cable coating	37	43	50	48	44	47	44	16	16	14	13	4	4	4
other	24	3	1	1	1	1	1	1	1	1	1	1	1	1

**Table A-3.** National Lead Emissions Estimates, 1980, 1985, 1989, 1990, 1991, 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000

Source Category	1980	1985	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Ferrous Metals Processing	911	577	582	576	517	461	496	540	528	529	538	536	555	555
coke manufacturing	6	3	4	4	3	3	2	0	0	0	0	0	0	0
ferroalloy production	13	7	20	18	14	14	12	13	8	8	8	7	6	6
iron production	38	21	19	18	16	17	18	19	18	18	18	18	18	18
steel production	481	209	138	138	145	139	145	160	159	160	165	168	173	173
gray iron production	373	336	401	397	339	288	319	349	342	343	348	343	357	357
Metals Processing NEC	289	144	170	185	199	202	194	200	184	193	201	196	195	195
metal mining	207	141	169	184	198	201	193	199	183	192	200	195	194	194
other	82	3	1	1	1	1	1	1	1	1	1	1	1	1
OTHER INDUSTRIAL PROCESSES	808	316	173	169	167	56	55	54	59	51	54	54	53	53
Mineral Products	93	43	23	26	24	26	27	28	29	29	30	30	31	31
cement manufacturing	93	43	23	26	24	26	27	28	29	29	30	30	31	31
Miscellaneous Industrial Processes	715	273	150	143	143	30	28	26	30	22	25	23	22	22
WASTE DISPOSAL & RECYCLING	1,210	871	765	804	808	812	825	830	604	788	798	806	813	813
Incineration	1,210	871	765	804	808	812	825	830	604	788	798	806	813	813
municipal waste	161	79	45	67	70	68	69	70	76	76	76	77	77	77
other	1,049	792	720	738	738	744	756	762	534	712	722	729	736	736
Transportation	64,706	18,973	1,802	1,197	592	584	547	544	564	525	523	518	536	565
ON-ROAD VEHICLES	60,501	18,052	982	421	18	18	19	19	19	20	21	22	20	20
Light-Duty Gas Vehicles & Motorcycles	47,184	13,637	733	314	13	14	14	14	12	13	14	14	14	14
Light-Duty Gas Trucks	11,671	4,061	232	100	4	4	5	5	7	7	7	7	5	5
Heavy-Duty Gas Vehicles	1,646	354	16	7	0	0	0	0	0	0	1	1	1	1
NON-ROAD ENGINES AND VEHICLES	4,205	921	820	776	574	565	529	525	544	505	503	497	515	545
Non-Road Gasoline	3,320	229	166	158	0	0	0	0	0	0	0	0	0	0
Aircraft	885	692	655	619	574	565	528	525	544	505	503	497	515	545
<b>TOTAL ALL SOURCES</b>	<b>74,153</b>	<b>22,890</b>	<b>5,468</b>	<b>4,975</b>	<b>4,169</b>	<b>3,810</b>	<b>3,916</b>	<b>4,047</b>	<b>3,929</b>	<b>4,077</b>	<b>4,137</b>	<b>4,057</b>	<b>4,199</b>	<b>4,228</b>

**Note:** Some columns may not sum to totals due to rounding.

**Table A-4.** National Nitrogen Oxides Emissions Estimates, 1980, 1985, 1989–2000 (thousand short tons)

Source Category	1980	1985	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Fuel Combustion	11,320	10,048	10,537	10,895	10,779	10,928	11,111	11,015	10,827	10,502	10,563	10,389	9,964	9,649
FUEL COMB. ELEC. UTIL.														
Coal	7,024	6,127	6,593	6,663	6,519	6,504	6,651	6,565	6,384	6,141	6,279	6,231	5,672	5,266
bituminous	6,123	5,240	5,676	5,642	5,559	5,579	5,744	5,636	5,579	5,574	5,644	5,436	4,929	4,573
subbituminous	3,439	4,378	4,595	4,532	4,435	4,456	4,403	4,207	3,830	3,776	3,828	3,635	3,176	2,910
anthracite & lignite	1,694	668	837	857	874	868	1,087	1,167	1,475	1,570	1,591	1,575	1,551	1,462
other	542	194	245	254	250	255	262	273	229	225	226	201	201	201
Oil	447	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0	0	0
residual	901	193	285	221	212	170	180	163	96	118	145	223	188	154
distillate	39	178	268	207	198	158	166	149	94	116	142	220	184	149
other	862	15	17	14	14	13	14	14	2	2	2	3	3	4
Gas	NA	NA	0	NA	NA	NA	NA	NA	NA	0	0	0	0	0
natural	646	582	565	580	579	551	551	562	285	319	381	370	353	351
process	646	582	565	580	579	551	551	562	273	306	363	368	368	351
Other	NA	NA	NA	NA	NA	NA	NA	NA	NA	12	13	19	2	1
Internal Combustion														
FUEL COMB. INDUSTRIAL														
Coal	3,555	3,209	3,035	2,979	3,071	3,151	3,147	3,144	3,157	3,102	3,051	3,130	3,222	3,222
bituminous	444	608	615	585	570	574	589	602	597	543	537	524	539	543
subbituminous	306	430	446	399	387	405	413	420	412	369	364	357	367	370
anthracite & lignite	94	14	14	18	20	21	28	38	46	46	44	44	46	46
other	44	33	30	26	26	26	27	26	19	19	18	18	18	18
Oil	NA	131	124	141	137	122	122	117	112	109	108	105	108	109
residual	286	309	294	265	237	244	245	241	247	225	216	209	214	228
distillate	179	191	176	180	146	154	153	149	156	141	130	126	129	139
other	63	89	88	71	73	75	76	73	73	74	72	73	75	75
Gas	NA	44	29	29	14	18	17	17	17	11	12	11	11	13
natural	2,619	1,520	1,625	1,182	1,250	1,301	1,330	1,333	1,324	1,205	1,189	1,175	1,200	1,253
process	2,469	1,282	1,405	967	1,025	1,068	1,095	1,103	1,102	993	970	958	984	1,010
other	5	227	209	211	222	230	233	228	220	210	216	215	214	240
Other	NA	145	11	10	3	3	3	2	2	3	3	3	3	3
wood/dark waste	205	118	120	131	129	126	124	123	120	115	115	115	118	123
liquid waste	138	89	92	89	82	82	83	84	83	79	80	83	86	86
other	67	17	16	34	36	34	30	30	28	29	28	27	27	28
Internal Combustion														
FUEL COMB. OTHER														
Commercial/Institutional Coal	741	712	736	1,196	1,281	1,353	1,308	1,303	1,298	1,204	1,182	1,107	1,162	1,161
Commercial/Institutional Oil	25	37	38	40	36	38	40	40	38	34	35	37	37	37
Commercial/Institutional Gas	155	106	106	97	88	93	95	103	96	97	80	79	80	80
Misc. Fuel Comb. (Except Residential)	131	145	159	200	210	225	232	237	231	247	252	243	265	269
Residential Wood	NA	11	34	32	28	31	30	27	28	28	29	28	29	29
Residential Other	356	326	347	780	865	916	867	857	847	770	740	688	723	713
distillate oil	85	75	78	209	211	210	210	210	193	188	172	175	169	169
natural gas	238	248	267	449	469	489	513	516	470	437	400	433	431	431
other	33	3	121	185	218	144	131	118	108	114	117	116	114	114
Industrial Processes	666	891	852	892	816	857	861	878	873	888	923	933	933	967

**Table A-4.** National Nitrogen Oxides Emissions Estimates, 1980, 1985, 1989–2000 (thousand short tons) (continued)

Source Category	1980	1985	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
CHEMICAL & ALLIED PRODUCT MFG	213	262	273	168	165	163	155	160	158	125	127	129	131	134
Organic Chemical Mfg	54	37	42	18	22	22	19	20	20	21	21	21	21	22
Inorganic Chemical Mfg	159	22	18	12	12	10	5	6	7	6	6	6	6	6
Polymer & Resin Mfg	NA	22	23	6	6	5	5	4	3	3	3	3	3	3
Agricultural Chemical Mfg	NA	143	152	80	77	76	74	76	74	50	51	52	53	55
Paint, Varnish, Lacquer, Enamel Mfg	NA	0	0	0	0	0	0	0	0	0	0	0	0	0
Pharmaceutical Mfg	NA	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Chemical Mfg	NA	38	39	52	48	50	51	54	45	46	47	47	48	48
METALS PROCESSING	65	87	83	97	76	81	83	91	98	83	88	88	88	91
Nonferrous Metals Processing	NA	16	15	14	15	13	12	12	11	12	12	12	12	12
Ferrous Metals Processing	65	58	54	78	56	62	67	75	83	66	71	71	70	73
Metals Processing NEC	NA	13	14	6	5	6	4	4	4	6	6	6	6	7
PETROLEUM & RELATED INDUSTRIES	72	124	97	153	121	148	123	117	110	139	143	143	143	146
Oil & Gas Production	NA	69	47	104	65	68	70	63	58	86	88	88	88	90
Petroleum Refineries & Related Industries	72	55	49	47	52	76	49	49	48	47	48	48	48	49
Asphalt Manufacturing	NA	1	1	3	4	4	5	5	5	7	7	7	7	7
OTHER INDUSTRIAL PROCESSES	205	327	311	378	352	361	370	389	399	438	460	467	465	487
Agriculture, Food, & Kindred Products	NA	5	5	3	3	3	4	3	6	5	5	5	5	5
Textiles, Leather, & Apparel Products	NA	0	0	0	0	0	0	0	0	1	1	1	1	1
Wood, Pulp & Paper, & Publishing Prods	73	77	91	88	86	86	89	89	86	89	91	92	92	96
Rubber & Miscellaneous Plastic Prods	NA	0	0	0	0	0	0	0	0	0	0	0	0	0
Mineral Products	181	239	220	270	249	259	267	281	287	331	350	355	351	369
cement mfg	98	137	124	151	131	139	143	150	153	200	212	214	208	220
glass mfg	60	48	45	59	59	61	64	66	67	69	74	76	77	81
other	23	54	51	61	59	60	60	64	66	62	64	65	65	67
Machinery Products	NA	2	2	3	2	2	3	6	7	2	3	3	3	3
Electronic Equipment	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0
Transportation Equipment	NA	0	0	0	0	0	0	0	0	0	0	0	0	0
Miscellaneous Industrial Processes	NA	8	7	10	10	9	9	10	12	12	12	12	12	12
SOLVENT UTILIZATION	NA	2	3	1	2	3	3	3	2	3	3	3	3	3
Degreasing	NA	0	0	0	0	0	0	0	0	0	0	0	0	0
Graphic Arts	NA	0	0	0	1	1	1	1	1	1	1	1	1	1
Dry Cleaning	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0
Surface Coating	NA	2	2	1	2	2	2	2	2	2	2	2	2	2
Other Industrial	NA	0	0	0	0	0	0	0	0	0	0	0	0	0
Nonindustrial	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0
Solvent Utilization NEC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
STORAGE & TRANSPORT	NA	2	2	3	6	5	5	5	6	15	16	16	16	17
Bulk Terminals & Plants	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	2
Petroleum & Petroleum Product Storage	NA	1	1	2	2	0	0	0	0	0	2	2	2	2
Service Stations: Stage I	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Service Stations: Stage II	NA	1	1	0	2	3	3	3	4	4	4	4	4	4
Organic Chemical Storage	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0
Inorganic Chemical Transport	NA	0	0	0	0	0	0	0	0	0	0	0	0	0
Bulk Materials Storage	NA	0	1	0	0	0	0	0	0	0	1	2	2	2

**Table A-4.** National Nitrogen Oxides Emissions Estimates, 1980, 1985, 1989, 1990, 1991, 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000 (thousand short tons) (continued)

Source Category	1980	1985	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
WASTE DISPOSAL & RECYCLING	111	87	84	91	95	96	123	114	99	86	86	87	87	89
Incineration	37	27	31	49	51	51	74	65	53	53	53	54	54	55
Open Burning	74	59	52	42	43	43	44	44	44	30	30	30	30	31
POTW	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0
Industrial Waste Water	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0
TSDF	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0
Landfills	NA	0	0	0	0	1	1	1	1	2	2	2	2	2
Other	NA	0	0	0	1	1	4	3	1	1	1	1	1	1
Transportation	12,150	11,948	12,210	12,014	12,457	12,692	12,902	13,191	13,085	14,260	14,470	14,371	13,731	13,251
ON-ROAD VEHICLES	8,621	8,089	7,682	7,210	7,557	7,759	7,960	8,176	7,956	8,793	8,924	8,816	8,612	8,150
Light-Duty Gas Vehicles & Motorcycles	4,421	3,806	3,494	3,013	3,069	3,098	3,117	3,173	3,043	3,006	2,996	2,933	2,825	2,790
light-duty gas vehicles	4,416	3,797	3,483	3,002	3,058	3,086	3,105	3,161	3,031	2,994	2,983	2,920	2,813	2,777
motorcycles	5	9	11	11	11	11	12	13	12	12	12	12	12	13
Light-Duty Gas Trucks	1,408	1,530	1,386	1,552	1,839	2,004	2,131	2,160	1,991	1,709	1,742	1,703	1,676	1,608
light-duty gas trucks	1	864	926	803	901	1,074	1,171	1,242	1,251	1,183	1,166	1,185	1,157	1,141
light-duty gas trucks	2	544	603	584	651	766	833	888	909	809	543	557	546	535
Heavy-Duty Gas Vehicles	300	330	343	306	321	309	316	351	330	518	505	467	455	439
Diesels	2,493	2,423	2,458	2,340	2,328	2,347	2,397	2,492	2,591	3,560	3,680	3,713	3,655	3,312
heavy-duty diesel vehicles	2,463	2,389	2,416	2,248	2,284	2,302	2,351	2,446	2,544	3,538	3,662	3,698	3,644	3,300
light-duty diesel trucks	5	6	7	63	11	11	12	12	13	8	7	6	5	4
light-duty diesel vehicles	25	28	35	28	33	33	33	34	34	14	11	9	7	7
NON-ROAD ENGINES AND VEHICLES	3,529	3,859	4,528	4,804	4,900	4,934	4,912	5,015	5,128	5,467	5,546	5,555	5,558	5,558
Non-Road Gasoline	101	108	114	120	121	123	124	126	127	164	181	197	203	212
recreational	1	1	1	6	6	6	6	6	6	29	29	29	29	30
construction	4	4	4	4	4	4	4	4	4	4	5	6	6	6
industrial	13	14	13	12	12	12	11	11	11	14	14	15	15	14
lawn & garden	29	31	35	36	37	38	39	40	41	51	61	71	79	84
farm	5	5	5	6	6	6	6	6	6	4	4	4	4	4
light commercial	11	12	14	15	16	16	17	18	18	22	27	31	32	34
logging	0	0	0	0	0	0	0	0	0	0	0	5	5	5
airport service	0	0	0	0	0	0	0	0	0	0	0	0	0	0
railway maintenance	NA	0	0	0	0	0	0	0	0	0	0	0	0	0
recreational marine vessels	38	40	41	41	41	41	41	41	41	37	37	37	33	34
Non-Road Diesel	2,125	2,155	2,472	2,513	2,552	2,595	2,640	2,687	2,739	2,746	2,760	2,751	2,707	2,660
recreational	2	2	3	3	3	3	3	3	3	5	5	5	5	5
construction	843	943	1,083	1,102	1,120	1,138	1,156	1,174	1,198	1,267	1,273	1,247	1,222	
industrial	193	244	270	268	265	268	270	274	240	242	241	237	234	
lawn & garden	19	22	40	45	50	54	59	64	69	70	76	81	84	83
farm	926	755	877	898	917	936	953	970	987	935	934	926	910	894
light commercial	44	54	72	77	82	87	91	96	101	109	114	119	123	126
logging	94	118	101	94	88	82	79	77	75	73	67	61	56	
airport service	2	3	6	7	7	8	8	9	10	10	10	10	10	
railway maintenance	NA	2	3	3	4	4	4	4	4	4	4	4	7	7
recreational marine vessels	NA	13	16	17	17	17	18	19	20	28	29	30	23	24

**Table A-4.** National Nitrogen Oxides Emissions Estimates, 1980, 1985, 1989–2000 (thousand short tons) (continued)

Source Category	1980	1985	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Aircraft	106	119	138	158	155	156	161	165	165	161	165	161	81	81
Marine Vessels	467	557	747	943	995	961	917	929	936	1,083	1,084	1,084	1,083	84
coal	0	0	0	0	0	0	0	0	0	NA	NA	NA	NA	1,090
diesel	396	469	628	630	649	621	593	604	615	996	996	996	996	1,006
residual oil	71	87	118	114	115	116	114	115	105	87	87	87	87	84
gasoline	NA	NA	NA	NA	10	10	9	9	10	NA	NA	NA	NA	NA
other	NA	NA	NA	NA	190	221	214	201	206	0	0	0	0	0
Railroads	731	808	923	929	946	945	947	990	1,183	1,222	1,215	1,242	1,242	1,230
Non-Road Other	NA	112	135	141	147	153	159	165	171	210	218	227	271	281
liquefied petroleum gas	NA	75	98	103	109	115	120	126	132	183	190	199	240	249
compressed natural gas	NA	37	38	38	39	39	39	39	39	27	28	28	31	32
MISCELLANEOUS	248	310	293	369	286	255	241	390	267	415	401	318	343	576
Agriculture and Forestry	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0	0	0
agricultural livestock	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0	0	0
Other Combustion	248	310	293	368	285	253	240	388	265	415	401	318	343	576
Health Services	NA	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0
Cooling Towers	NA	NA	NA	NA	NA	0	NA	0	0	0	0	0	0	0
Fugitive Dust	NA	NA	NA	NA	1	1	1	1	1	0	0	0	0	0
<b>TOTAL ALL SOURCES</b>	<b>24,384</b>	<b>23,198</b>	<b>23,893</b>	<b>24,170</b>	<b>24,338</b>	<b>24,732</b>	<b>25,116</b>	<b>25,474</b>	<b>25,051</b>	<b>26,065</b>	<b>26,357</b>	<b>26,011</b>	<b>25,439</b>	<b>24,899</b>

**Note:** Some columns may not sum to totals due to rounding.

**Table A-5.** National Volatile Organic Compounds Emissions Estimates, 1980, 1985, 1989–2000 (thousand short tons)

Source Category	1980	1985	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Fuel Combustion	1,050	1,570	1,372	1,005	1,075	1,114	993	989	1,073	1,125	1,122	1,136	1,206	64
FUEL COMB. ELEC. UTIL.	45	32	37	47	44	45	45	44	50	52	56	62	64	30
Coal	31	24	27	27	27	27	29	29	28	29	29	29	29	4
Oil	9	5	7	6	5	4	4	3	3	4	5	5	5	11
Gas	5	2	2	2	2	2	2	2	2	8	8	10	10	8
Other	NA	NA	NA	NA	NA	NA	NA	NA	0	0	1	1	1	8
Internal Combustion	NA	1	1	12	10	10	10	10	10	10	11	11	11	11
FUEL COMB. INDUSTRIAL	157	134	134	182	196	187	186	196	206	179	175	174	179	185
Coal	3	7	7	7	6	7	6	8	6	7	7	7	7	7
Oil	3	17	16	12	11	12	12	12	12	9	8	8	8	9
Gas	62	57	61	58	60	52	51	63	73	59	59	60	60	63
Other	89	35	36	51	51	49	51	50	50	35	34	34	35	37
Internal Combustion	NA	18	15	54	68	66	64	65	69	68	67	69	70	70
FUEL COMB. OTHER	848	1,403	1,200	776	835	884	762	748	823	896	895	892	895	957
Commercial/Institutional Coal	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Commercial/Institutional Oil	3	4	4	3	3	3	3	3	3	3	3	3	3	3
Commercial/Institutional Gas	7	6	7	8	8	10	11	11	11	14	14	13	15	15
Misc. Fuel Comb. (Except Residential)	NA	4	4	8	8	9	9	8	9	9	9	9	10	10
Residential Wood fireplaces	809	1,372	1,169	718	776	822	698	684	759	833	833	833	895	895
woodstoves	809	1,372	1,169	718	776	822	698	684	759	541	541	541	580	580
other	NA	NA	NA	NA	NA	NA	NA	NA	NA	292	292	292	315	315
Residential Other	28	16	15	38	39	40	40	40	41	36	35	33	34	34
<b>Industrial Processes</b>	<b>12,861</b>	<b>10,474</b>	<b>10,755</b>	<b>10,000</b>	<b>10,178</b>	<b>10,380</b>	<b>10,578</b>	<b>10,738</b>	<b>10,780</b>	<b>8,682</b>	<b>8,900</b>	<b>8,442</b>	<b>8,003</b>	<b>8,033</b>
CHEMICAL & ALLIED PRODUCT MFG	1,595	881	980	634	710	715	701	691	660	387	388	394	396	407
Organic Chemical Mfg	884	349	387	192	216	211	215	217	210	131	133	136	139	143
ethylene oxide mfg	10	2	2	0	1	1	1	1	0	0	0	0	0	0
phenol mfg	NA	0	0	4	4	4	4	4	2	2	2	2	2	2
terephthalic acid mfg	60	24	27	20	23	17	19	21	17	11	11	11	11	12
ethylene mfg	111	28	33	9	11	10	10	9	10	5	5	5	5	5
charcoal mfg	40	37	45	33	33	33	33	34	33	30	31	31	32	33
socmi reactor	118	43	49	26	30	30	32	33	33	27	28	28	29	30
socmi distillation	NA	7	7	8	9	8	8	8	4	4	4	4	4	4
socmi air oxidation processes	NA	0	1	2	2	2	2	2	1	1	1	1	1	1
socmi fugitives	254	179	193	61	67	69	70	70	40	41	42	42	43	43
other	291	27	30	29	38	37	36	35	34	12	12	12	13	13
Inorganic Chemical Mfg	93	3	3	2	3	3	2	2	3	3	3	3	3	3
Polymer & Resin Mfg	384	343	389	242	268	283	269	257	222	128	124	126	124	128
polypropylene mfg	1	12	13	2	2	2	2	2	2	2	2	2	2	2
polyethylene mfg	22	51	57	39	44	45	46	46	35	16	17	17	17	17
polystyrene resins	15	6	7	4	5	5	5	5	5	5	3	3	3	3
Polymer & Resin Mfg (continued)	199	217	250	144	161	173	157	143	142	78	80	82	83	86
synthetic fiber	70	45	50	15	15	16	17	18	16	11	7	7	7	7
styrene/butadiene rubber	77	12	13	37	41	42	43	42	42	16	16	16	13	13
other	NA	11	12	6	7	8	7	6	5	8	8	8	8	8
Agricultural Chemical Mfg														

**Table A-5.** National Volatile Organic Compounds Emissions Estimates, 1980, 1985, 1989–2000 (thousand short tons)  
(continued)

Source Category	1980	1985	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Paint, Varnish, Lacquer, Enamel Mfg	65	8	8	14	16	17	18	17	18	7	8	8	8	8
paint & varnish mfg	65	8	8	13	15	16	16	16	16	6	6	6	6	6
other	NA	0	0	1	1	1	1	1	2	2	2	2	2	2
Pharmaceutical Mfg	77	43	48	20	21	24	23	24	38	7	7	7	8	8
Other Chemical Mfg	92	125	132	158	179	169	166	168	104	105	106	107	109	109
carbon black mfg	92	26	26	9	17	16	16	21	24	27	28	28	28	29
printing ink mfg	NA	2	3	1	1	1	1	2	2	1	1	1	1	1
fugitives unclassified	NA	12	12	23	23	21	20	27	30	13	13	13	13	13
carbon black furnace: fugitives	NA	4	5	0	1	1	1	1	1	0	0	0	0	0
other	NA	81	87	125	136	129	127	117	107	63	64	65	66	66
METALS PROCESSING	273	76	74	122	123	124	124	126	125	73	78	78	76	79
Nonferrous Metals Processing	NA	18	19	18	19	17	18	20	21	19	20	20	20	21
Ferrous Metals Processing	273	57	54	98	99	100	98	97	96	44	47	47	46	48
coke oven door & topside leaks	152	12	12	19	22	27	27	26	26	5	6	6	6	6
coke oven by-product plants	NA	3	3	7	9	9	9	9	9	5	5	5	5	5
other	121	41	39	71	68	63	62	62	61	35	37	36	35	37
Metals Processing NEC	NA	1	1	7	6	8	8	8	8	10	11	11	10	11
PETROLEUM & RELATED INDUSTRIES	1,440	703	639	612	640	632	649	647	642	477	487	485	424	433
Petroleum Refineries & Related Industries	379	107	68	301	301	297	310	305	299	271	274	272	271	279
vacuum distillation	32	15	13	15	17	16	15	16	16	3	3	3	3	3
fluid catalytic cracking units	21	34	31	15	17	7	7	7	6	3	3	3	3	3
process unit turnarounds	NA	15	13	11	11	11	11	10	12	2	2	2	2	2
petroleum refinery fugitives	NA	76	65	99	105	103	109	109	111	84	87	86	27	27
other	992	454	446	177	196	195	194	198	194	97	101	101	101	101
Asphalt Manufacturing	16	3	3	3	3	3	3	3	4	5	5	5	4	4
OTHER INDUSTRIAL PROCESSES	237	390	403	401	391	414	442	438	450	422	438	443	463	480
Agriculture, Food, & Kindred Products	191	169	175	138	130	127	146	145	147	104	108	109	110	114
vegetable oil mfg	81	46	49	16	18	19	19	16	16	1	1	1	1	1
whiskey fermentation: aging	64	24	23	24	16	12	24	24	25	15	16	16	16	17
bakeries	46	51	51	43	44	44	46	47	41	42	42	43	44	44
other	NA	49	52	55	52	51	58	60	47	49	50	50	52	52
Textiles, Leather, & Apparel Products	NA	10	10	20	18	19	19	19	19	10	10	10	10	10
Wood, Pulp & Paper, & Publishing Products	NA	42	44	96	92	101	112	105	122	154	160	164	167	173
Rubber & Miscellaneous Plastic Products	41	46	58	59	64	62	61	60	49	51	52	52	54	54
rubber tire mfg	44	10	11	5	5	5	5	6	6	6	6	6	6	6
green tire spray	NA	5	6	3	4	3	3	3	3	2	2	2	2	2
other	NA	26	29	50	50	55	53	52	51	41	43	44	44	46
Mineral Products	2	15	14	18	17	27	28	30	31	31	32	32	32	33
Machinery Products	NA	4	4	7	8	10	8	11	11	11	12	12	12	12
Electronic Equipment	NA	0	0	2	2	3	3	3	2	1	1	1	13	13
Transportation Equipment	NA	1	0	2	2	2	3	3	3	4	4	4	4	4
Construction	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0
Miscellaneous Industrial Processes	NA	108	109	59	62	62	62	57	58	60	60	64	66	66

**Table A-5.** National Volatile Organic Compounds Emissions Estimates, 1980, 1985, 1989–2000 (thousand short tons)  
(continued)

Source Category	1980	1985	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
SOLVENT UTILIZATION														
Degreasing	6,584	5,699	5,964	5,750	5,782	5,901	6,016	6,162	6,183	5,474	5,621	5,149	4,828	4,827
open top	513	756	757	744	718	737	753	775	789	602	624	372	371	382
conveyorized	NA	28	29	18	25	26	27	24	8	8	4	4	4	4
cold cleaning	NA	5	4	5	6	6	6	5	4	5	2	2	2	2
other	NA	31	35	30	23	24	24	22	23	22	10	11	11	11
Graphic Arts	513	691	689	691	664	680	697	719	737	567	588	356	354	365
letterpress	NA	2	2	4	8	8	8	8	8	6	6	6	6	6
flexographic	NA	18	20	20	24	26	25	24	19	19	20	16	16	16
lithographic	NA	4	4	14	17	18	21	22	20	12	12	13	13	13
gravure	NA	131	150	75	82	81	87	93	91	50	51	52	45	46
other	373	317	363	274	301	308	322	333	339	287	293	300	295	304
Dry Cleaning	320	169	212	215	218	224	225	228	230	154	163	166	168	169
perchloroethylene	NA	85	107	110	112	115	116	117	118	58	61	63	63	64
petroleum solvent	NA	84	105	104	106	109	110	111	112	89	94	96	97	98
other	320	0	0	0	0	0	0	0	1	7	8	8	8	8
Surface Coating	3,685	2,549	2,635	2,523	2,521	2,577	2,632	2,716	2,681	2,373	2,456	2,193	2,138	2,087
industrial adhesives	55	381	375	390	374	386	400	419	410	351	366	147	148	154
fabrics	186	34	35	14	14	16	16	15	15	10	10	10	11	11
paper	626	106	114	75	64	61	59	59	52	48	49	50	51	53
large appliances	36	22	18	21	20	20	21	22	21	23	24	23	22	23
magnet wire	5	0	0	1	1	1	1	1	1	2	2	2	2	2
autos & light trucks	165	85	87	92	90	93	92	96	94	100	102	105	109	109
metal cans	73	97	95	94	91	93	96	98	102	99	106	109	113	117
metal coil	21	50	50	45	49	47	49	48	47	45	47	48	49	51
wood furniture	231	132	140	158	154	159	171	185	179	175	185	127	130	143
metal furniture	52	41	44	48	47	49	52	56	53	52	54	56	58	59
flatwood products	82	4	4	9	10	11	12	13	16	17	17	18	19	19
plastic parts	25	11	11	27	22	23	22	22	18	15	16	16	16	17
large ships	20	15	15	15	14	15	15	15	13	17	18	18	19	16
aircraft	2	27	34	7	7	7	7	7	6	11	12	5	6	6
misc. metal parts	NA	14	14	59	87	90	92	93	92	38	40	40	41	41
steel drums	NA	NA	NA	3	3	3	3	4	4	4	4	4	4	4
architectural	477	473	500	495	500	505	510	515	522	480	485	487	483	406
traffic markings	NA	100	106	105	106	107	108	109	111	93	94	94	93	77
maintenance coatings	106	79	80	79	76	78	81	85	84	80	83	84	85	71
railroad	9	4	3	3	3	3	3	4	4	3	3	3	4	4
auto refinishing	186	111	132	130	132	137	140	144	142	161	163	104	104	102
machinery	62	37	28	28	26	26	27	27	25	25	25	22	20	19
electronic & other electrical	NA	79	79	78	75	77	80	85	85	78	82	82	82	87
general	52	146	154	121	127	129	133	140	138	100	105	106	107	113
miscellaneous	799	104	103	32	37	42	39	38	35	30	31	32	33	35
thinning solvents	NA	90	96	97	100	94	96	99	51	53	54	54	56	56
other	415	306	317	297	295	302	310	321	314	273	280	282	282	293

**Table A-5.** National Volatile Organic Compounds Emissions Estimates, 1980, 1985, 1989–2000 (thousand short tons)  
(continued)

Source Category	1980	1985	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Other Industrial	690	125	131	94	98	102	102	99	96	106	110	111	113	118
miscellaneous	44	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
rubber & plastics mfg	327	25	29	28	28	29	29	31	38	40	40	40	40	42
other	319	100	102	66	71	74	73	68	64	68	70	71	72	76
Nonindustrial	1,002	1,783	1,867	1,900	1,925	1,952	1,982	2,011	2,048	1,949	1,973	2,004	1,743	1,765
cutback asphalt	323	191	199	199	202	207	214	221	227	135	140	144	147	150
other asphalt	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
pesticide application	241	212	260	258	264	272	280	289	299	388	393	408	412	421
adhesives	NA	345	353	361	365	368	372	375	380	301	304	307	250	252
consumer solvents	NA	1,035	1,056	1,083	1,095	1,105	1,116	1,126	1,142	1,076	1,085	1,095	883	890
other	437	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Solvent Utilization NEC	NA	NA	0	NA	NA	0	NA	0	0	NA	NA	NA	NA	NA
STORAGE & TRANSPORT	1,975	1,747	1,753	1,495	1,532	1,583	1,600	1,629	1,6532	1,289	1,327	1,327	1,245	1,225
Bulk Terminals & Plants	517	606	651	359	369	384	395	403	406	208	215	214	206	208
fixed roof	12	14	15	9	11	12	13	16	16	6	6	6	6	7
floating roof	39	46	50	26	29	30	34	29	19	11	11	11	12	12
variable vapor space	1	1	1	2	2	1	1	1	0	0	0	0	0	0
efr with seals	NA	NA	NA	2	3	3	4	4	3	2	2	2	2	2
ifr with seals	NA	NA	NA	2	2	3	5	3	3	3	3	3	3	3
underground tanks	0	0	1	2	2	2	2	2	2	2	2	2	2	2
area source: gasoline	440	512	553	282	281	292	292	305	322	163	167	167	157	157
other	26	32	33	36	40	42	44	43	41	21	22	22	24	25
Petroleum & Petroleum Product Storage	306	223	210	157	195	204	205	194	191	181	187	187	108	109
fixed roof gasoline	43	26	23	13	17	17	16	16	14	14	14	14	1	1
fixed roof crude	148	26	21	21	25	26	28	24	21	25	26	25	10	11
floating roof gasoline	45	27	24	15	25	24	24	22	22	16	16	16	11	11
floating roof crude	36	5	5	2	7	7	8	6	5	6	6	6	2	2
efr / seal gasoline	3	2	2	7	11	13	14	14	15	9	9	9	9	9
efr / seal crude	2	0	0	3	3	3	3	3	2	3	3	4	3	3
ifr / seal gasoline	1	1	1	1	2	2	2	2	2	3	3	3	3	3
ifr / seal crude	2	0	0	0	0	0	0	0	0	1	1	1	1	1
variable vapor space gasoline	3	1	2	1	2	5	6	3	0	0	0	0	0	0
area source: crude	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0
other	23	133	132	92	102	106	103	103	106	104	108	108	68	69
Petroleum & Petroleum Product Transport	61	126	125	151	146	149	142	139	134	115	119	119	121	97
gasoline loading: normal / splash	0	3	3	3	2	2	2	3	2	3	3	3	3	3
gasoline loading: balanced / submerged	2	21	22	15	17	15	13	11	10	7	7	7	7	7
gasoline loading: normal / submerged	3	41	42	26	25	26	24	25	23	13	14	13	14	14
gasoline loading: clean / submerged	0	2	2	0	0	0	0	0	0	0	0	0	1	1
marine vessel loading: gasoline & crude	50	24	22	31	30	29	28	29	31	32	33	34	34	32
other	6	35	35	76	73	75	73	72	70	61	62	63	60	60
Service Stations: Stage I	461	207	223	300	295	303	309	322	334	310	318	318	321	321
Service Stations: Stage II	583	485	441	433	430	442	449	467	484	399	410	410	412	414
Service Stations: Breathing & Employing	NA	49	52	52	51	52	53	55	57	43	45	45	45	45
Organic Chemical Storage	46	34	36	30	35	38	39	39	37	26	27	25	26	26
Organic Chemical Transport	NA	17	15	10	8	8	7	7	5	5	5	5	3	3
Inorganic Chemical Storage	NA	0	0	0	1	1	1	1	1	1	1	1	1	1
Inorganic Chemical Transport	NA	0	0	0	0	0	0	0	0	0	0	0	0	0
Bulk Materials Storage	NA	0	0	2	2	1	1	1	1	1	1	1	1	1
Bulk Materials Transport	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0

**Table A-5.** National Volatile Organic Compounds Emissions Estimates, 1980, 1985, 1989–2000 (thousand short tons)  
(continued)

Source Category	1980	1985	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
WASTE DISPOSAL & RECYCLING	758	979	941	986	999	1,010	1,046	1,067	560	561	566	571	582	
Incineration	366	64	59	48	50	51	76	65	54	24	25	26	26	
Open Burning	372	309	274	196	200	203	207	208	364	364	364	364	371	
Industrial	NA	6	6	4	4	4	5	5	0	0	0	0	0	
commercial/institutional	NA	1	2	9	9	10	10	10	0	0	0	0	0	
residential	NA	302	266	165	167	169	171	172	173	150	150	150	154	
land clearing debris	NA	NA	NA	NA	NA	NA	NA	NA	NA	206	206	206	209	
other	372	NA	NA	19	20	20	21	21	20	8	8	8	8	
POTW	NA	10	11	49	47	48	50	52	51	48	48	49	50	
Industrial Waste Water	NA	1	2	14	18	19	19	19	16	19	20	20	21	
TSDF	NA	594	595	589	591	589	588	587	628	41	41	42	42	
Landfills	NA	0	0	64	66	69	74	80	75	35	35	36	37	
Other	20	0	0	26	28	31	33	35	36	29	29	30	32	
<b>Transportation</b>	<b>11,291</b>	<b>11,818</b>	<b>9,744</b>	<b>8,988</b>	<b>9,240</b>	<b>8,882</b>	<b>8,973</b>	<b>9,235</b>	<b>8,515</b>	<b>9,336</b>	<b>9,082</b>	<b>8,972</b>	<b>8,754</b>	<b>8,396</b>
ON-ROAD VEHICLES														
Light-Duty Gas Vehicles & Motorcycles	8,979	9,376	7,192	6,443	6,660	6,289	6,348	6,563	5,816	5,541	5,438	5,332	5,035	
light-duty gas vehicles	5,907	5,864	4,462	3,692	3,608	3,288	3,232	3,332	3,029	2,911	2,878	2,907	2,798	
motorcycles	5,843	5,810	4,412	3,635	3,571	3,256	3,198	3,295	2,991	2,875	2,842	2,865	2,756	
Light-Duty Gas Trucks	2,059	2,425	1,867	2,016	2,318	2,347	2,471	2,488	2,135	1,786	1,788	1,759	1,655	
light-duty gas trucks <sup>1</sup>	1,229	1,437	1,018	1,103	1,245	1,255	1,313	1,307	1,172	1,157	1,164	1,171	1,166	
light-duty gas trucks <sup>2</sup>	830	988	849	912	1,073	1,092	1,157	1,181	963	629	624	617	593	
Heavy-Duty Gas Vehicles	611	716	517	405	416	335	327	414	325	488	439	400	375	
Diesels	402	370	346	331	318	318	318	330	326	356	332	316	290	
heavy-duty diesel vehicles	392	360	332	298	303	302	302	313	309	348	325	311	286	
light-duty diesel trucks	2	2	3	24	4	5	5	5	5	4	3	3	2	
light-duty diesel vehicles	8	8	11	9	11	11	11	12	12	5	4	3	3	
NON-ROAD ENGINES AND VEHICLES	2,312	2,442	2,552	2,545	2,581	2,594	2,624	2,672	2,699	3,834	3,684	3,573	3,461	
Non-Road Gasoline	1,787	1,886	1,907	1,889	1,920	1,925	1,957	1,991	2,021	3,303	3,156	3,056	2,973	
recreational	151	156	160	128	130	132	133	135	138	604	604	604	605	
construction	39	45	44	44	44	44	44	44	44	68	59	54	51	
industrial	33	37	33	33	32	31	30	29	28	42	34	32	29	
lawn & garden	583	616	682	700	718	734	752	771	789	1,047	971	888	852	
farm	17	19	20	20	21	21	21	22	22	17	17	16	15	
light commercial	127	137	164	171	179	185	192	192	200	207	233	204	182	
logging	5	5	8	9	9	10	11	11	12	372	344	351	369	
airport service	1	1	1	1	1	1	1	1	1	0	0	0	0	
railway maintenance	NA	0	0	0	0	0	0	0	0	0	0	0	0	
recreational marine vessels	830	869	793	784	787	768	772	778	779	917	924	929	890	
Non-Road Diesel	327	332	384	390	397	403	408	414	420	412	406	395	369	
recreational	1	1	1	1	1	1	1	1	1	1	1	1	1	
construction	135	151	176	181	185	190	194	199	204	207	205	198	185	
industrial	28	36	40	41	41	42	42	43	41	41	41	39	37	
lawn & garden	4	5	9	10	11	12	13	14	14	15	16	17	18	
farm	138	113	127	126	126	125	124	123	121	107	104	101	95	
light commercial	8	10	13	13	14	14	15	15	14	14	15	13	10	
logging	11	14	14	14	15	15	15	15	14	14	14	13	10	
airport service	0	1	1	1	1	2	2	2	2	2	2	2	2	
railway maintenance	NA	1	1	1	1	1	1	1	1	1	1	1	1	
recreational marine vessels	NA	2	3	3	3	3	3	3	3	3	3	3	3	

**Table A-5.** National Volatile Organic Compounds Emissions Estimates, 1980, 1985, 1989–2000 (thousand short tons)  
(continued)

Source Category	1980	1985	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Aircraft	146	165	190	180	177	179	176	176	178	32	32	32	32	29
Marine Vessels	19	22	30	32	34	33	32	43	32	39	39	40	39	39
coal	0	1	1	0	0	0	0	1	0	NA	NA	NA	NA	NA
diesel	17	20	27	21	22	21	20	27	20	31	31	31	31	32
residual oil	1	1	2	3	3	3	3	4	3	8	8	8	8	7
gasoline	NA	NA	NA	NA	1	1	1	1	1	NA	NA	NA	NA	NA
other	NA	NA	NA	NA	7	8	8	11	8	0	0	0	0	0
Railroads	33	37	42	52	52	54	52	49	49	48	50	50	48	48
Non-Road Other	NA	0	0	0	0	0	0	0	0	0	0	0	0	0
liquefied petroleum gas	NA	0	0	0	0	0	0	0	0	0	0	0	0	0
compressed natural gas	NA	0	0	0	0	0	0	0	0	0	0	0	0	0
MISCELLANEOUS	1,134	566	642	1,059	756	486	556	720	551	742	1,181	702	1,506	2,710
Agriculture & Forestry	NA	NA	NA	5	6	6	6	7	7	7	7	7	8	8
Other Combustion	1,134	565	641	1,049	743	474	544	707	537	729	1,168	688	1,493	2,696
structural fires	40	44	44	14	14	15	15	15	15	3	3	3	3	3
agricultural fires	70	55	79	48	48	49	48	51	54	51	52	52	53	54
slash/prescribed burning	285	182	234	239	243	266	259	293	277	293	311	311	281	183
forest wildfires	739	283	335	749	439	164	212	379	171	395	817	319	1,152	2,452
other	1	NA	NA	3	3	3	3	3	3	3	3	3	3	3
Catastrophic/Accidental Releases	NA	NA	4	4	4	4	4	4	4	4	5	5	5	5
Health Services	NA	0	1	1	0	1	1	1	1	0	1	1	1	1
Cooling Towers	NA	NA	NA	0	2	2	1	2	2	1	1	1	1	1
Fugitive Dust	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0
<b>TOTAL ALL SOURCES</b>	26,336	24,428	22,513	21,053	21,249	20,862	21,099	21,683	20,918	19,924	20,325	19,278	19,439	20,384

**Note:** Some columns may not sum to totals due to rounding.

**Table A-6.** National PM<sub>10</sub> Emissions Estimates, 1980, 1985, 1989–2000 (thousand short tons)

Source Category	1980	1985	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Fuel Combustion	2,445	1,536	1,382	1,196	1,147	1,183	1,124	1,113	1,179	978	980	912	950	997
FUEL COMB. ELEC. UTIL.														
Coal	879	280	271	295	257	279	268	289	294	229	259	231	242	270
bituminous	796	268	255	265	232	234	246	244	268	197	231	125	129	242
subbituminous	217	193	188	169	167	185	181	174	195	196	134	NA	NA	129
anthracite & lignite	238	35	39	37	39	43	46	44	48	51	47	57	57	57
other	75	16	22	41	23	23	22	21	19	21	17	49	49	56
Oil	NA	0	0	NA	NA	NA	NA	NA	0	0	0	0	0	0
residual	74	8	12	9	10	7	9	8	5	6	7	5	3	3
distillate	2	0	0	0	0	0	0	0	0	0	0	0	0	0
Gas	7	1	1	1	0	0	1	1	1	1	1	0	0	0
Other	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Internal Combustion														
FUEL COMB. INDUSTRIAL														
Coal	679	247	243	270	233	243	257	270	302	239	233	230	235	244
bituminous	18	71	70	84	72	74	71	70	70	73	71	74	74	74
subbituminous	12	48	49	59	48	53	51	49	49	43	42	44	44	44
anthracite & lignite	4	1	1	5	3	3	3	5	5	5	5	5	5	5
other	2	7	6	2	1	1	1	1	1	1	1	1	1	1
Oil	NA	15	14	19	19	17	16	16	15	24	23	23	23	24
residual	67	52	48	52	44	45	45	44	49	46	43	42	43	46
distillate	63	43	39	44	36	37	38	37	42	38	35	34	35	38
other	4	5	5	6	6	6	6	6	7	7	7	7	7	7
Gas	23	47	44	41	34	40	43	43	45	42	42	42	42	45
natural	20	24	24	30	24	26	29	30	30	28	27	27	28	29
process	3	22	20	11	10	13	13	14	15	14	15	15	14	16
other	0	4	4	2	2	1	1	1	1	1	1	1	1	1
Other	571	75	78	87	72	74	86	74	73	61	58	59	59	62
wood/bark waste	566	67	71	80	67	67	71	68	68	54	51	52	53	55
liquid waste	NA	1	1	1	1	1	1	1	1	1	1	1	1	1
other	5	6	6	5	6	5	6	14	6	5	7	6	6	6
Internal Combustion														
FUEL COMB. OTHER														
Commercial/Institutional Coal	887	1,009	869	631	657	683	588	570	610	450	453	453	456	483
Commercial/Institutional Oil	8	13	13	15	14	15	15	15	16	16	16	17	17	17
Commercial/Institutional Gas	4	4	5	5	6	6	6	7	6	8	7	8	8	8
Misc. Fuel Comb. (Except Residential)	NA	3	3	79	73	73	72	73	73	72	76	79	81	84
Residential Wood	818	959	817	501	535	558	464	446	446	484	319	319	319	342
fireplaces	818	959	817	501	535	558	464	446	446	484	144	144	144	154
woodstoves	NA	NA	NA	NA	NA	NA	NA	NA	NA	175	175	175	175	188
other	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Residential Other	27	18	18	18	18	18	18	18	18	18	23	22	21	21

**Table A-6.** National PM<sub>10</sub> Emissions Estimates, 1980, 1985, 1989, 1990, 1991, 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000 (thousand short tons) (continued)

Source Category	1980	1985	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Industrial Processes	3,026	1,339	1,276	1,306	1,264	1,269	1,240	1,219	1,231	1,180	1,203	1,207	1,209	1,242
CHEMICAL & ALLIED PRODUCT MFG	148	58	63	77	68	71	66	76	67	63	64	65	65	67
Organic Chemical Mfg	19	19	22	26	28	28	28	29	29	29	29	30	30	31
Inorganic Chemical Mfg	25	7	8	19	4	5	5	5	4	4	4	4	4	4
Polymer & Resin Mfg	NA	4	5	5	4	5	4	4	3	3	3	3	3	3
Agricultural Chemical Mfg	61	9	10	11	11	11	11	10	10	8	9	9	9	9
Paint, Varnish, Lacquer, Enamel Mfg	NA	0	0	1	1	1	1	1	1	1	1	1	1	1
Pharmaceutical Mfg	NA	0	0	1	0	0	0	0	0	0	0	0	0	0
Other Chemical Mfg	42	18	18	14	20	20	18	27	18	19	19	19	19	19
METALS PROCESSING	622	220	211	214	251	250	181	184	212	144	151	150	148	152
Nonferrous Metals Processing	130	46	45	50	46	47	40	39	41	34	35	35	35	35
copper	32	3	3	14	14	15	12	11	12	6	6	6	6	6
lead	18	4	3	3	2	2	2	2	3	2	2	2	2	2
zinc	3	3	3	6	6	6	1	2	2	2	2	2	2	2
other	77	36	36	27	23	23	25	25	25	24	25	25	25	25
Ferrous Metals Processing	322	164	156	155	123	115	121	125	149	91	96	95	93	96
primary	271	136	129	128	99	92	97	100	123	64	68	68	67	70
secondary	51	26	26	25	24	23	24	25	26	27	28	27	26	26
Metals Processing NEC	NA	2	2	2	0	0	0	0	0	0	0	0	0	0
PETROLEUM & RELATED INDUSTRIES	170	10	10	9	82	88	20	20	22	19	20	20	21	21
Oil & Gas Production	63	58	55	43	43	38	38	40	29	30	30	30	29	30
Petroleum Refineries & Related Industries	41	24	21	17	18	17	16	18	12	12	12	12	12	12
fluid catalytic cracking units	41	24	21	17	18	17	16	18	12	12	12	12	12	12
other	NA	4	3	3	3	3	3	3	5	5	5	5	5	5
Asphalt Manufacturing	97	35	34	33	21	20	17	18	12	12	11	11	11	11
OTHER INDUSTRIAL PROCESSES	1,846	611	591	583	520	506	501	495	511	325	336	338	343	355
Agriculture, Food, & Kindred Products	402	68	72	73	80	69	73	80	59	61	59	61	61	63
country elevators	258	7	9	9	10	10	10	9	9	5	5	5	5	6
terminal elevators	86	6	6	6	7	8	8	7	7	2	2	2	2	2
feed mills	3	6	7	7	4	5	5	5	3	3	3	3	3	4
soybean mills	22	13	14	14	15	11	12	12	12	7	7	7	7	8
wheat mills	1	3	3	3	4	4	4	4	4	2	2	2	2	2
other grain mills	6	7	8	8	6	5	6	6	7	5	5	5	5	6
other	26	25	25	25	34	26	28	30	37	36	37	34	36	37
Textiles, Leather, & Apparel Products	NA	0	0	0	0	0	0	0	0	1	1	1	1	1
Wood, Pulp & Paper, & Publishing Products	183	101	106	105	81	79	78	81	75	77	79	80	84	84
sulfate (kraft) pulping	142	71	74	73	53	50	49	50	53	38	40	40	41	43
other	41	30	33	32	27	29	29	26	28	37	38	39	39	41
Rubber & Miscellaneous Plastic Products	NA	3	4	4	4	4	3	3	4	4	4	4	4	4
Mineral Products	1,261	401	374	367	320	318	316	313	317	160	166	167	168	174
cement mfg	417	213	193	190	147	145	140	139	140	23	24	25	24	26
surface mining	127	20	15	15	14	15	17	17	17	16	17	17	17	17
stone quarrying/processing	421	52	54	59	60	60	58	58	23	24	24	24	24	24
other	296	116	111	108	99	98	99	100	102	97	101	102	103	107
Machinery Products	NA	8	9	9	8	9	7	7	7	5	5	5	5	6
Electronic Equipment	NA	0	0	0	0	0	0	0	0	1	1	1	1	1
Transportation Equipment	NA	2	2	2	2	2	0	0	0	0	0	0	0	0
Construction	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0
Miscellaneous Industrial Processes	NA	28	23	23	25	24	22	23	25	21	21	21	21	22

**Table A-6.** National PM<sub>10</sub> Emissions Estimates, 1980, 1985, 1989–2000 (thousand short tons) (continued)

Source Category	1980	1985	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
SOLVENT UTILIZATION														
Degreasing	NA	2	2	4	5	5	6	6	6	6	6	6	6	7
Graphic Arts	NA	0	0	0	0	0	0	0	0	0	0	0	0	0
Dry Cleaning	NA	0	0	0	0	0	0	0	0	0	1	1	1	1
Surface Coating	NA	2	2	3	4	4	5	5	4	5	5	5	5	5
Other Industrial	NA	0	0	1	1	1	1	1	1	0	0	0	0	0
Nonindustrial	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Solvent Utilization NEC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
STORAGE & TRANSPORT	NA	107	101	102	101	117	114	106	109	81	83	84	85	87
Bulk Terminals & Plants	NA	0	0	0	0	0	0	0	0	0	0	0	0	0
Petroleum & Petroleum Product Storage	NA	0	0	0	1	1	0	0	1	1	1	1	1	1
Petroleum & Petroleum Product Transport	NA	0	0	0	0	0	0	0	0	0	0	0	0	0
Service Stations: Stage II	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Organic Chemical Storage	NA	1	1	1	1	1	1	1	1	1	1	1	1	1
Organic Chemical Transport	NA	0	0	0	0	0	0	0	0	0	0	0	0	0
Inorganic Chemical Storage	NA	0	0	1	1	1	1	1	1	0	0	0	0	0
Inorganic Chemical Transport	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0
Bulk Materials Storage	NA	105	99	100	99	115	111	104	107	78	80	81	82	84
storage	NA	33	31	31	27	30	32	31	30	26	26	27	27	28
transfer	NA	72	67	69	71	85	79	73	76	51	53	54	54	56
combined	NA	1	1	1	0	0	0	0	0	0	0	0	0	0
other	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bulk Materials Transport	NA	0	0	1	0	0	0	0	0	0	0	0	0	0
WASTE DISPOSAL & RECYCLING														
Incineration	273	278	251	271	276	278	334	313	287	532	533	534	533	544
residential	75	52	50	65	66	65	119	96	69	26	27	28	28	29
other	42	39	35	39	41	43	44	45	45	0	0	0	0	0
Open Burning	32	13	15	26	25	23	74	52	25	26	27	28	28	29
residential	198	225	200	206	209	211	214	216	217	502	502	502	502	511
land clearing debris	198	221	195	195	197	199	202	203	204	190	190	190	190	195
other	NA	NA	NA	NA	NA	NA	NA	NA	NA	302	302	302	302	306
POTW	4	5	11	12	12	13	13	13	13	10	10	10	10	10
Industrial Waste Water	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0
TSDF	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0
Landfills	NA	0	0	0	0	0	1	1	0	3	3	3	3	3
Other	NA	0	0	0	0	0	0	0	1	1	1	1	1	1
Transportation	795	786	844	838	842	839	810	804	756	809	791	769	741	708
ON-ROAD VEHICLES	397	363	367	349	353	349	327	324	300	345	331	312	296	273
Light-Duty Gas Vehicles & Motorcycles	120	77	65	57	56	55	55	55	54	55	56	56	58	59
light-duty gas vehicles	119	77	64	57	55	54	55	54	55	55	56	56	58	58
motorcycles	1	0	0	0	0	0	0	0	0	0	0	0	0	0
Light-Duty Gas Trucks	55	43	34	37	44	47	46	46	41	35	36	36	36	36
light-duty gas trucks <sup>1</sup>	25	19	16	18	21	22	22	22	23	23	24	24	25	25
light-duty gas trucks <sup>2</sup>	29	24	19	19	23	25	24	24	19	12	12	11	11	11
Heavy-Duty Gas Vehicles	15	14	11	10	10	9	10	10	9	14	13	12	11	11
Diesels	208	229	257	245	243	238	215	213	194	239	225	206	190	168
heavy-duty diesel vehicles	194	219	247	225	233	228	206	204	185	235	221	203	188	166
light-duty diesel trucks	2	1	2	13	2	3	2	2	2	2	2	1	1	1
light-duty diesel vehicles	12	8	9	7	8	8	7	7	7	7	7	7	2	2

**Table A-6.** National PM<sub>10</sub> Emissions Estimates, 1980, 1985, 1989, 1990, 1991, 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000 (thousand short tons) (continued)

Source Category	1980	1985	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
NON-ROAD ENGINES AND VEHICLES	398	424	477	489	489	490	483	480	456	464	460	457	445	435
Non-Road Gasoline	42	44	46	47	47	48	48	49	49	49	49	90	91	93
recreational	3	3	3	3	3	3	3	3	3	3	3	6	6	6
construction	1	1	1	1	1	1	1	1	1	1	2	2	2	2
industrial	0	0	0	0	0	0	0	0	0	0	0	0	0	0
lawn & garden	9	9	10	11	11	11	12	12	12	12	21	20	20	21
farm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
light commercial	1	1	2	2	2	2	2	2	2	2	2	2	2	2
logging	0	0	0	0	0	0	0	0	0	0	0	0	0	0
airport service	0	0	0	0	0	0	0	0	0	0	0	0	0	0
railway maintenance	NA	0	0	0	0	0	0	0	0	0	0	0	0	0
recreational marine vessels	28	29	30	30	30	30	30	30	30	30	38	38	39	39
Non-Road Diesel	263	272	302	301	299	297	296	296	296	296	268	268	251	241
recreational	0	1	1	1	1	1	1	1	1	1	1	1	1	1
construction	123	134	149	149	148	147	147	147	146	146	142	139	135	121
industrial	27	35	38	38	37	37	38	38	38	38	33	33	33	33
lawn & garden	4	4	8	8	9	10	11	11	11	11	12	12	12	12
farm	85	70	78	78	77	76	75	74	73	73	62	59	54	52
light commercial	7	9	11	12	12	12	13	13	14	13	14	14	15	15
logging	16	19	15	13	11	10	9	9	8	8	7	7	6	5
airport service	0	0	1	1	1	1	1	1	1	1	1	1	1	1
railway maintenance	NA	0	1	1	1	1	1	1	1	1	1	1	1	1
recreational marine vessels	NA	1	1	1	1	1	1	1	2	2	2	2	1	1
Aircraft	33	43	44	44	45	43	41	40	5	5	5	5	5	5
Marine Vessels	23	28	44	46	45	43	44	43	66	65	66	66	65	NA
coal	2	2	3	3	3	3	3	3	NA	NA	NA	NA	NA	NA
diesel	15	17	23	27	28	27	26	26	42	42	42	42	42	42
residual oil	7	9	12	14	14	14	14	14	13	13	24	24	24	23
gasoline	NA	NA	1	1	1	1	1	1	NA	NA	NA	NA	NA	NA
Railroads	37	41	47	53	53	54	52	50	27	29	30	30	30	30
Non-Road Other	NA	1	1	1	1	1	1	1	2	2	1	1	1	1
liquefied petroleum gas	NA	1	1	1	1	1	1	1	1	1	1	1	1	1
compressed natural gas	NA	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>TOTAL ALL SOURCES</b>	6,267	3,662	3,502	3,340	3,253	3,292	3,174	3,136	3,165	2,967	2,974	2,888	2,900	2,947

**Note:** Some columns may not sum to totals due to rounding.

**Table A-7.** Miscellaneous and Natural PM<sub>10</sub> Emissions Estimates, 1980, 1985, 1989–2000 (thousand short tons)

Source Category	1980	1985	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
NATURAL SOURCES	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Geogenic	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Wind Erosion	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MISCELLANEOUS	37,736	37,461	24,540	24,233	23,958	24,328	25,619	22,765	20,283	21,124	20,836	21,138	21,926	21,926
Agriculture & Forestry	NA	7,108	7,320	5,292	5,234	5,017	4,575	4,845	4,902	4,911	4,952	4,998	5,045	5,045
agricultural crops	NA	6,833	6,923	4,745	4,684	4,464	4,016	4,281	4,334	4,330	4,373	4,366	4,408	4,449
agricultural livestock	NA	275	396	547	550	553	558	564	569	581	579	585	590	596
Other Combustion	852	894	912	1,181	924	770	800	1,053	849	1,136	1,283	987	1,332	2,018
structural fires	23	59	59	22	22	23	23	23	24	24	3	3	3	3
agricultural fires	NA	59	85	88	88	89	86	92	97	99	101	103	104	106
slash/prescribed burning	315	468	468	470	481	487	539	514	583	532	579	620	444	248
forest wildfires	514	308	300	601	332	171	152	424	145	502	599	261	780	1,660
other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cooling Towers	NA	NA	NA	0	0	0	0	0	1	3	3	3	3	3
Fugitive Dust	NA	29,734	29,229	18,068	18,075	18,170	18,953	19,722	17,012	14,233	14,886	14,895	14,805	14,860
unpaved roads	NA	11,644	11,798	11,234	11,206	10,918	11,430	11,370	10,362	9,071	9,461	9,327	9,158	9,154
paved roads	NA	5,080	5,769	2,248	2,399	2,423	2,462	2,538	2,409	2,400	2,595	2,663	2,769	2,741
construction	NA	12,670	11,269	4,249	4,092	4,460	4,651	5,245	3,654	2,117	2,117	2,117	2,117	2,187
other	NA	339	392	336	377	369	409	569	586	645	713	788	760	777
<b>TOTAL ALL SOURCES</b>	852	37,736	37,461	24,540	24,233	23,958	24,328	25,619	22,765	20,283	21,124	20,836	21,138	21,926

**Table A-8.** National PM<sub>2.5</sub> Emissions Estimates, 1990–2000 (thousand short tons)

Source Category	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Fuel Combustion	909	893	927	852	841	898	735	737	705	719	756
FUEL COMB. ELEC. UTIL.											
Coal	121	105	106	112	108	107	157	161	130	137	141
bituminous	97	85	87	90	86	86	133	135	103	113	116
subbituminous	59	53	53	57	54	52	88	89	62	57	59
anthracite & lignite	14	16	18	18	17	20	32	31	30	35	35
Oil	23	16	16	15	15	15	13	15	11	20	22
Gas	5	5	4	5	5	3	5	6	4	3	2
Other	NA	NA	NA	NA	NA	NA	NA	1	1	0	0
Internal Combustion	20	15	16	17	17	18	17	18	18	19	19
FUEL COMB. INDUSTRIAL											
Coal	177	151	159	172	183	203	153	149	147	150	157
bituminous	29	23	25	24	25	25	23	23	23	24	24
subbituminous	23	18	20	20	19	19	18	18	18	18	18
anthracite & lignite	2	1	1	2	3	3	3	3	3	3	3
other	1	1	0	0	0	1	0	0	0	0	0
Oil	31	26	26	27	26	28	26	24	24	24	26
residual	26	22	22	23	22	24	22	20	19	20	22
distillate	4	3	3	4	4	4	4	4	4	4	4
other	1	1	1	1	1	1	0	1	0	0	1
Gas	39	34	39	41	42	44	39	39	38	39	41
natural	29	23	26	28	29	29	25	25	25	25	26
process	11	10	13	13	14	15	13	14	14	14	15
other	0	0	0	0	0	0	0	0	0	0	0
Other	73	58	59	69	60	59	50	48	48	48	51
wood/bark/waste	68	55	54	58	55	55	44	42	42	43	45
liquid waste	1	0	0	1	0	0	0	0	0	0	0
other	4	3	4	10	4	3	6	5	5	5	5
Internal Combustion	5	10	10	11	29	48	15	15	15	15	16
FUEL COMB. OTHER											
Commercial/Institutional Coal	611	638	662	568	550	589	425	427	428	432	458
Commercial/Institutional Oil	5	5	5	5	5	5	5	5	4	4	4
Commercial/Institutional Gas	5	5	6	6	6	6	7	7	7	7	7
Misc. Fuel Comb. (Except Residential)	78	73	72	72	73	72	75	75	78	81	83
Residential Wood	501	535	558	464	446	484	319	319	319	319	342
fireplaces	NA	NA	NA	NA	NA	NA	175	175	175	175	188
woodstoves	15	15	15	15	15	15	15	14	13	14	14
Residential Other	15	17	812	819	788	771	749	886	891	893	915
Industrial Processes	794										
CHEMICAL & ALLIED PRODUCT MFG	47	43	45	41	49	42	39	39	40	40	41
Organic Chemical Mfg	10	10	11	10	11	11	12	12	12	12	13
Inorganic Chemical Mfg	12	3	4	4	4	3	3	3	3	3	3
Polymer & Resin Mfg	4	3	4	3	3	3	2	2	2	2	2
Agricultural Chemical Mfg	8	8	8	8	8	8	5	6	6	6	6
Paint, Varnish, Lacquer, Enamel Mfg	0	0	0	0	0	0	0	0	0	0	0
Pharmaceutical Mfg	0	0	0	0	0	0	0	0	0	0	0
Other Chemical Mfg	13	17	15	15	15	15	14	14	14	14	17

**Table A-8.** National PM<sub>2.5</sub> Emissions Estimates, 1990–2000 (thousand short tons) (continued)

Source Category	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
METALS PROCESSING											
Non-Ferrous Metals Processing	157	197	198	125	125	134	100	105	105	104	107
copper	31	29	29	25	25	25	22	23	23	23	23
lead	9	9	9	8	8	8	4	5	4	4	5
zinc	2	2	2	2	2	2	2	2	2	2	2
other	5	5	5	1	1	1	1	1	1	1	2
Ferrous Metals Processing	14	13	13	14	14	14	15	15	15	15	15
primary	121	89	83	86	86	92	65	69	68	66	68
secondary	103	72	66	68	68	74	47	50	50	50	52
other	1	0	0	0	0	0	0	0	0	0	0
Metals Processing NEC	5	80	85	14	14	16	13	14	14	15	15
PETROLEUM & RELATED INDUSTRIES	27	24	24	22	22	22	17	17	17	17	17
Oil & Gas Production	2	2	2	2	2	2	1	1	1	1	1
Petroleum Refineries & Related Industries	13	14	14	13	13	13	12	12	12	12	12
fluid catalytic cracking units	11	12	12	11	11	11	7	8	8	8	8
other	2	2	2	2	2	2	4	4	4	4	4
Asphalt Manufacturing	12	9	8	7	7	8	4	4	4	4	4
OTHER INDUSTRIAL PROCESSES	284	264	259	260	256	256	180	186	189	191	198
Agriculture, Food, & Kindred Products	39	46	40	44	43	40	20	21	21	22	22
country elevators	6	6	7	6	6	6	1	1	1	1	1
terminal elevators	3	3	4	5	4	4	0	0	0	0	0
feed mills	2	2	2	2	2	2	1	1	1	1	1
soybean mills	5	4	4	5	5	5	3	3	3	3	3
wheat mills	1	1	1	1	1	1	1	1	1	1	1
other grain mills	4	3	3	3	3	3	2	3	3	3	3
other	17	26	19	21	22	20	14	14	14	15	15
Textiles, Leather, & Apparel Products	0	0	0	0	0	0	0	1	0	0	1
Wood, Pulp & Paper, & Publishing Products	77	61	59	59	57	60	52	53	55	56	58
sulfate (kraft) pulping	57	40	38	38	38	40	31	32	32	33	34
other	21	21	21	19	20	21	22	22	22	23	24
Rubber & Miscellaneous Plastic Products	3	3	3	3	3	3	2	2	2	2	2
Mineral Products	144	134	135	136	133	134	88	92	93	93	97
cement mfg	54	40	39	38	38	38	11	11	11	11	12
surface mining	6	6	7	7	7	6	7	7	7	7	8
stone quarrying/processing	24	28	28	28	26	26	9	9	9	9	9
other	61	60	61	62	63	63	61	64	65	66	68
Machinery Products	3	3	3	3	3	3	2	2	2	2	2
Electronic Equipment	0	0	0	0	0	0	1	1	1	1	1
Transportation Equipment	1	1	1	0	0	0	0	0	0	0	0
Construction	0	0	0	0	0	0	0	0	0	0	0
Miscellaneous Industrial Processes	16	16	17	15	16	16	14	14	15	15	15

**Table A-8.** National PM<sub>2.5</sub> Emissions Estimates, 1990–2000 (thousand short tons) (continued)

SOURCE CATEGORY	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
SOLVENT UTILIZATION	4	4	5	6	6	5	5	5	5	6	6
Degreasing	0	0	0	0	0	0	0	0	0	0	0
Graphic Arts	0	0	0	0	0	0	0	1	1	1	1
Dry Cleaning	0	0	0	0	0	0	0	0	0	0	0
Surface Coating	3	3	4	4	4	4	4	4	4	4	4
Other Industrial	1	1	1	1	1	1	0	0	0	0	0
Nonindustrial	NA	NA	NA	NA	NA	NA	0	0	0	0	0
Solvent Utilization NEC	NA	NA	NA	NA	NA	NA	0	0	0	0	0
STORAGE & TRANSPORT	42	42	50	46	43	42	30	31	31	32	32
Bulk Terminals & Plants	0	0	0	0	0	0	0	0	0	0	0
Petroleum & Petroleum Product Storage	0	1	1	1	0	0	0	0	0	0	0
Petroleum & Petroleum Product Transport	0	0	0	0	0	0	0	0	0	0	0
Service Stations: Stage II	0	0	0	0	0	0	0	0	0	0	0
Organic Chemical Storage	0	0	0	0	0	0	0	1	1	1	1
Organic Chemical Transport	0	0	0	0	0	0	0	0	0	0	0
Inorganic Chemical Storage	0	0	0	0	0	0	0	0	0	0	0
Inorganic Chemical Transport	0	0	0	0	0	0	0	0	0	0	0
Bulk Materials Storage	41	41	48	44	41	41	28	29	29	30	31
storage	13	11	12	13	13	12	11	11	11	11	12
transfer	28	29	36	31	28	29	17	18	18	18	19
combined	0	0	0	0	0	0	0	0	0	0	0
other	NA	0	0	NA	0	0	0	0	0	0	0
Bulk Materials Transport	0	0	0	0	0	0	0	0	0	0	0
WASTE DISPOSAL & RECYCLING	234	238	239	288	271	247	503	503	504	514	514
Incineration	46	47	46	93	73	50	15	15	16	16	16
residential	27	28	30	31	31	31	0	0	0	0	0
other	19	18	16	62	42	19	15	15	16	16	16
Open Burning	187	190	192	195	196	197	486	486	486	486	495
residential	177	179	181	183	184	185	174	174	174	174	178
land clearing debris	NA	NA	NA	NA	NA	NA	302	302	302	306	306
other	10	11	11	12	11	10	10	10	10	10	10
POTW	0	0	0	0	0	0	0	0	0	0	0
Industrial Waste Water	0	0	0	0	0	0	0	0	0	0	0
TSDF	0	0	0	0	0	0	0	0	0	0	0
Landfills	0	0	0	1	1	0	2	2	2	2	2
Other	0	0	0	0	1	0	0	0	0	0	0
Transportation	719	720	717	688	682	640	702	686	666	638	608
ON-ROAD VEHICLES	286	288	284	261	258	237	276	263	246	230	209
Light-Duty Gas Vehicles & Motorcycles	34	33	32	32	32	32	32	32	33	34	33
ldgv	34	33	32	32	32	32	32	32	33	34	33
motorcycles	0	0	0	0	0	0	0	0	0	0	0
Light-Duty Gas Trucks	24	28	30	29	26	22	22	22	22	22	22
ldgt1	12	13	14	14	14	14	15	15	15	15	7
ldgt2	13	15	16	16	15	15	12	12	8	7	7

**Table A-8.** National PM<sub>2.5</sub> Emissions Estimates, 1990–2000 (thousand short tons) (continued)

SOURCE CATEGORY	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Heavy-Duty Gas Vehicles	6	6	6	7	7	6	9	9	8	8	7
Diesels	221	220	216	192	190	173	212	199	181	166	147
hddv	204	211	207	184	182	165	208	196	179	165	145
lddt	12	2	2	2	2	2	1	1	1	1	1
lddv	6	7	7	6	6	6	2	2	1	1	1
NON-ROAD ENGINES AND VEHICLES	432	433	427	424	403	426	423	420	408	399	399
Non-Road Gasoline	43	43	43	44	44	45	81	82	83	84	85
recreational	2	3	3	3	3	3	5	5	5	5	5
construction	1	1	1	1	1	1	2	2	2	2	2
industrial	0	0	0	0	0	0	0	0	0	0	0
lawn & garden	10	10	10	11	11	11	19	19	19	19	19
farm	0	0	0	0	0	0	0	0	0	0	0
light commercial	1	2	2	2	2	2	2	2	2	2	2
logging	0	0	0	0	0	0	17	19	20	21	22
airport service	0	0	0	0	0	0	0	0	0	0	0
railway maintenance	0	0	0	0	0	0	0	0	0	0	0
recreational marine vessels	27	27	27	28	28	28	35	35	36	36	35
Non-Road Diesel	277	275	273	273	272	272	251	247	242	231	222
recreational	1	1	1	1	1	1	1	1	1	1	1
construction	137	136	136	134	134	134	130	128	124	118	111
industrial	35	34	34	35	35	35	30	30	30	30	30
lawn & garden	8	8	9	10	11	11	10	10	11	11	11
farm	71	71	70	69	68	67	57	55	53	50	48
light commercial	11	11	11	12	12	13	12	13	13	13	14
logging	12	10	9	8	8	8	8	7	6	5	5
airport service	1	1	1	1	1	1	1	1	1	1	1
railway maintenance	1	1	1	1	1	1	1	1	1	0	0
recreational marine vessels	1	1	1	1	1	1	2	2	2	1	1
Aircraft	31	31	32	30	29	28	4	4	4	4	4
Marine Vessels	32	34	33	31	32	31	61	60	61	61	60
coal	1	1	1	1	1	1	NA	NA	NA	NA	NA
diesel	25	26	25	24	24	24	38	38	38	38	39
residual oil	6	6	6	6	6	6	22	22	22	22	21
gasoline	0	0	0	0	0	0	NA	NA	NA	NA	NA
Railroads	49	48	50	48	46	25	27	28	28	27	27
Non-Road Other	1	1	1	1	1	1	2	2	2	1	1
liquefied petroleum gas	1	1	1	1	1	1	1	1	1	1	1
compressed natural gas	0	0	0	0	0	0	0	0	0	0	0
<b>NATURAL SOURCES</b>	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Geogenic	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Wind Erosion	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MISCELLANEOUS	5,234	5,003	4,854	4,926	5,359	4,726	4,411	4,735	4,479	4,829	5,466
Agriculture & Forestry	1,031	1,019	976	887	941	952	953	961	961	970	979
agricultural crops	949	937	893	803	856	867	866	875	873	882	890
agricultural livestock	82	83	83	84	85	85	87	87	88	89	89

**Table A-8.** National PM<sub>2.5</sub> Emissions Estimates, 1990–2000 (thousand short tons) (continued)

SOURCE CATEGORY	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Other Combustion	1,037	807	666	693	912	735	931	1,123	855	1,200	1,817
structural fires	20	20	21	21	21	22	3	3	3	3	3
agricultural fires	80	80	81	78	83	89	89	91	93	94	96
slash/prescribed burning	399	408	413	457	436	494	453	491	526	400	223
forest wildfires	538	299	151	137	372	130	386	538	233	702	1,494
other	0	0	0	0	0	0	0	0	0	0	0
Cooling Towers	0	0	0	0	0	1	2	2	3	3	3
Fugitive Dust	3,166	3,177	3,212	3,346	3,506	3,037	2,525	2,649	2,660	2,657	2,667
unpaved roads	1,687	1,684	1,642	1,718	1,709	1,559	1,366	1,427	1,406	1,381	1,380
paved roads	562	600	606	616	634	585	600	649	666	693	686
construction	850	818	892	930	1,049	777	423	423	423	423	437
other	67	75	73	81	113	117	136	150	165	159	163
<b>TOTAL ALL SOURCES</b>	<b>7,655</b>	<b>7,429</b>	<b>7,318</b>	<b>7,254</b>	<b>7,653</b>	<b>7,013</b>	<b>6,722</b>	<b>7,044</b>	<b>6,741</b>	<b>7,079</b>	<b>7,745</b>

**Note:** Some columns may not sum to totals due to rounding.

**Table A-9.** National Sulfur Dioxide Emissions Estimates, 1980, 1985, 1989, 1990, 1991, 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000

Source Category	1980	1985	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Fuel Combustion	21,391	20,021	19,924	20,290	19,796	19,493	19,245	18,887	16,230	16,232	16,649	16,746	16,027	14,876
FUEL COMB. ELEC. UTIL.														
Coal	17,469	16,272	16,215	15,909	15,784	15,416	15,189	14,889	12,080	12,730	13,195	13,416	12,653	11,389
bituminous	16,073	15,630	15,404	15,220	15,087	14,824	14,527	14,313	11,603	12,206	12,615	12,470	11,826	10,723
subbituminous	NA	14,029	13,579	13,371	13,215	12,914	12,212	11,841	8,609	8,998	9,517	9,357	8,596	7,866
anthracite & lignite	NA	1,292	1,422	1,415	1,381	1,455	1,796	1,988	2,345	2,632	2,490	2,486	2,609	2,367
Oil	1,395	612	779	639	652	546	612	522	413	460	514	509	631	489
residual	NA	604	765	629	642	537	601	512	408	454	509	756	631	511
distillate	NA	8	14	10	9	10	10	10	5	5	5	5	5	502
Gas	1	1	1	1	1	1	1	1	1	1	1	1	1	8
Other	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9
Internal Combustion														
FUEL COMB. INDUSTRIAL														
Coal	2,951	3,169	3,086	3,550	3,256	3,292	3,218	3,357	2,863	2,805	2,742	2,788	2,788	2,894
bituminous	1,527	1,818	1,840	1,914	1,805	1,783	1,763	1,740	1,728	1,321	1,306	1,274	1,305	1,320
subbituminous	1,058	1,347	1,384	1,050	949	1,005	991	988	1,003	885	877	858	878	889
anthracite & lignite	144	90	79	67	68	67	68	68	68	61	63	61	64	64
other	NA	353	348	746	735	650	636	606	576	312	306	298	306	309
Oil	1,065	862	812	927	779	801	809	777	912	807	764	738	754	806
residual	851	671	625	687	550	591	597	564	701	626	578	559	571	618
distillate	85	111	107	198	190	191	193	191	191	158	161	156	159	161
other	129	80	80	42	39	20	20	20	20	23	25	23	24	27
Gas	299	397	346	543	516	552	555	542	548	575	582	578	575	609
Other	60	86	82	158	142	140	140	141	147	140	134	133	135	140
Internal Combustion														
FUEL COMB. OTHER														
Commercial/Institutional Coal	971	579	624	831	755	784	772	780	793	639	649	588	586	593
Commercial/Institutional Oil	110	158	169	212	184	190	193	192	200	179	184	196	196	200
Commercial/Institutional Gas	637	239	274	425	376	396	381	391	397	308	314	250	245	252
Misc. Fuel Comb. (Except Residential)	1	2	2	7	7	8	8	8	10	10	10	10	11	11
Residential Wood	13	13	11	7	7	8	6	6	6	5	5	5	5	5
Residential Other	211	167	167	175	176	177	178	177	176	131	130	121	123	119
distillate oil	157	128	132	137	141	144	145	145	144	108	106	97	98	95
bituminous/subbituminous coal	43	29	27	30	26	26	25	25	24	17	18	18	18	18
other	11	10	8	9	8	8	8	8	8	6	6	6	6	6
Industrial Processes	3,807	2,467	2,010	1,900	1,720	1,758	1,723	1,675	1,638	1,408	1,458	1,463	1,457	1,498
CHEMICAL & ALLIED PRODUCT MFG	280	456	440	297	280	278	269	275	286	255	259	261	262	268
Organic Chemical Mfg	NA	16	17	10	9	9	9	8	8	4	4	4	4	5
Inorganic Chemical Mfg	271	354	334	214	208	203	191	194	199	173	176	178	179	183
sulfur compounds	271	346	326	211	205	199	187	189	195	171	174	176	177	181
other	NA	8	8	2	3	4	4	4	4	2	2	2	2	2
Polymer & Resin Mfg	NA	7	7	1	1	1	1	1	0	1	1	1	1	1
Agricultural Chemical Mfg	NA	4	4	5	4	4	4	4	5	1	1	1	1	1
Paint, Varnish, Lacquer, Enamel Mfg	NA	0	0	0	0	0	0	0	0	0	0	0	0	0
Pharmaceutical Mfg	NA	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Chemical Mfg	10	76	77	67	57	60	64	74	76	77	76	77	76	78

**Table A-9.** National Sulfur Dioxide Emissions Estimates, 1980, 1985, 1989–2000 (thousand short tons) (continued)

Source Category	1980	1985	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
METALS PROCESSING	1,842	1,042	695	726	612	615	603	562	530	390	407	405	400	411
Nonferrous Metals Processing	1,279	853	513	517	435	438	431	391	361	267	276	274	271	278
copper	1,080	655	327	323	234	247	250	206	177	93	99	98	97	100
lead	34	121	113	129	135	131	122	128	126	112	113	114	114	116
aluminum	95	62	60	60	61	55	53	51	53	57	59	57	55	56
other	71	14	13	4	5	5	6	6	6	5	5	5	5	5
Ferrous Metals Processing	562	172	165	186	159	158	153	153	151	107	114	114	112	116
Metals Processing NEC	NA	18	17	22	18	18	19	19	18	17	17	17	16	17
PETROLEUM & RELATED INDUSTRIES	734	505	429	430	378	416	383	379	369	335	344	342	341	346
Oil & Gas Production	157	204	156	122	98	93	98	95	89	90	90	90	90	92
natural gas	157	202	155	120	96	92	96	93	88	89	90	89	89	92
other	NA	2	1	2	2	2	2	2	1	1	1	1	1	1
Petroleum Refineries & Related Industries	577	300	272	304	274	315	278	276	271	238	246	245	244	246
fluid catalytic cracking units	330	212	195	183	182	185	183	188	188	157	163	162	162	163
other	247	88	77	121	92	130	95	88	83	81	83	82	83	83
Asphalt Manufacturing	NA	1	1	4	7	7	8	9	8	8	8	7	7	7
OTHER INDUSTRIAL PROCESSES	918	425	405	399	396	396	392	398	403	390	409	415	414	432
Agriculture, Food, & Kindred Products	NA	3	3	3	3	3	3	3	3	4	4	4	4	5
Textiles, Leather, & Apparel Products	NA	0	0	0	0	0	0	0	0	0	0	0	0	0
Wood, Pulp & Paper, & Publishing Prods	223	131	136	116	123	119	113	109	114	101	105	107	109	113
Rubber & Miscellaneous Plastic Prods	NA	1	1	0	0	0	0	0	0	1	1	1	1	1
Mineral Products	694	286	261	275	267	270	272	282	282	270	285	288	284	299
cement mfg	630	192	172	181	165	168	170	167	171	171	181	183	179	189
other	64	95	89	94	102	102	114	111	99	103	105	105	109	109
Machinery Products	NA	0	0	0	0	1	0	1	0	0	0	0	0	0
Electronic Equipment	NA	0	0	0	0	0	0	0	0	0	0	0	0	0
Transportation Equipment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Miscellaneous Industrial Processes	NA	3	3	5	3	3	3	3	4	13	13	14	14	14
SOLVENT UTILIZATION	NA	1	1	0	0	1	1	1	1	1	1	1	1	1
Degreasing	NA	0	0	0	0	0	0	0	0	0	0	0	0	0
Graphic Arts	NA	0	0	0	0	0	0	0	0	0	0	0	0	0
Dry Cleaning	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0	0	0
Surface Coating	NA	1	0	0	0	0	0	0	0	0	0	0	0	0
Other Industrial	NA	0	0	0	0	0	0	0	0	0	0	0	0	0
STORAGE & TRANSPORT	NA	4	5	7	10	9	5	2	2	5	5	5	5	5
Bulk Terminals & Plants	NA	NA	0	1	1	0	0	0	0	0	0	1	1	1
Petroleum & Petroleum Product Storage	NA	0	0	5	7	0	0	0	0	0	0	0	0	0
Petroleum & Petroleum Product Transport	NA	1	1	0	0	0	0	0	0	0	0	1	1	2
Service Stations: Stage II	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0	0	0
Organic Chemical Storage	NA	1	0	0	0	0	0	0	0	0	0	0	0	0
Organic Chemical Transport	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0
Inorganic Chemical Storage	NA	0	0	0	0	0	0	0	0	0	0	0	0	0
Inorganic Chemical Transport	NA	1	2	1	1	7	4	1	1	2	2	2	2	2

**Table A-9.** National Sulfur Dioxide Emissions Estimates, 1980, 1985, 1989, 1990, 1991, 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000

Source Category	1980	1985	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
WASTE DISPOSAL & RECYCLING	33	34	36	43	44	44	71	59	47	32	33	34	34	35
Incineration	21	25	28	32	32	32	51	42	35	26	27	28	28	29
Industrial	NA	10	5	4	5	5	25	17	8	6	6	7	7	7
other	21	15	18	26	28	27	26	27	20	21	21	21	21	22
Open Burning	12	9	8	11	11	11	11	11	11	5	5	5	5	5
Industrial	NA	0	0	0	0	0	0	0	0	0	0	0	0	0
land clearing debris	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
other	12	8	7	10	10	11	11	11	11	5	5	5	5	5
POTW	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0
Industrial Waste Water	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0
TSDF	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0
Landfills	NA	0	0	0	0	0	0	0	0	0	0	0	0	0
Industrial	NA	0	0	0	0	0	0	0	0	0	0	0	0	0
other	NA	0	0	0	0	0	0	0	0	0	0	0	0	0
Other	NA	0	0	0	0	1	1	8	6	0	0	0	0	0
<b>Transportation</b>	<b>697</b>	<b>1,159</b>	<b>1,349</b>	<b>1,476</b>	<b>1,517</b>	<b>1,553</b>	<b>1,497</b>	<b>1,297</b>	<b>1,311</b>	<b>1,791</b>	<b>1,816</b>	<b>1,837</b>	<b>1,853</b>	<b>1,805</b>
ON-ROAD VEHICLES	521	522	570	560	573	586	526	307	311	343	353	358	366	314
Light-Duty Gas Vehicles & Motorcycles	159	146	145	129	126	125	124	125	126	128	131	134	136	108
light-duty gas vehicles	158	145	145	128	126	125	124	124	126	128	130	134	136	107
motorcycles	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Light-Duty Gas Trucks	50	55	58	69	81	87	90	92	93	85	89	90	94	75
light-duty gas trucks: <sup>1</sup>	33	36	38	45	52	56	58	59	60	62	65	66	69	55
light-duty gas trucks: <sup>2</sup>	16	19	21	24	29	31	32	32	32	22	23	24	24	20
Heavy-Duty Gas Vehicles	10	11	11	10	10	10	11	12	11	18	18	17	17	13
Diesels	303	311	356	352	356	364	300	79	82	112	117	117	119	118
NON-ROAD ENGINES AND VEHICLES	175	637	779	916	944	968	972	990	999	1,448	1,463	1,479	1,487	1,491
Non-Road Gasoline	NA	20	22	22	22	22	23	23	23	35	35	35	35	35
Non-Road Diesel	NA	407	488	509	529	549	570	590	610	459	474	490	497	516
Aircraft	6	6	7	11	11	11	11	11	11	8	8	8	8	8
Marine Vessels	117	143	193	251	259	258	249	252	239	887	887	887	887	872
Railroads	53	59	67	122	120	125	117	113	113	56	56	56	56	56
Non-Road Other	NA	1	2	2	2	2	2	2	2	3	3	3	4	4
MISCELLANEOUS	11	11	11	12	11	10	10	15	10	16	15	12	12	21
Agriculture & Forestry	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0	0	0
Other Combustion	11	11	11	12	11	9	9	15	10	16	15	12	12	21
Fugitive Dust	NA	NA	0	0	0	0	1	0	0	0	0	0	0	0
<b>TOTAL ALL SOURCES</b>	<b>25,905</b>	<b>23,658</b>	<b>23,293</b>	<b>23,679</b>	<b>23,044</b>	<b>22,813</b>	<b>22,474</b>	<b>21,875</b>	<b>19,189</b>	<b>19,447</b>	<b>19,939</b>	<b>20,059</b>	<b>19,349</b>	<b>18,201</b>

**Note:** Some columns may not sum to totals due to rounding.

**Table A-10.** National Ammonia Emissions Estimates, 1990–2000 (thousand short tons)

Source Category	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Fuel Combustion	25	25	25	26	26	26	47	47	47	49	50
FUEL COMB. ELEC. UTIL.	0	0	0	0	0	0	6	6	8	8	8
Coal	NA	NA	NA	NA	NA	NA	0	0	0	0	0
Oil	NA	NA	NA	NA	NA	NA	2	2	3	3	3
Gas	NA	NA	NA	NA	NA	NA	4	4	4	5	5
Other	NA	NA	NA	NA	NA	NA	0	0	0	0	0
Internal Combustion	0	0	0	0	0	0	0	0	0	0	0
FUEL COMB. INDUSTRIAL	17	17	17	18	18	18	34	34	33	34	35
Coal	0	0	0	0	0	0	0	0	0	0	0
Oil	4	4	4	4	4	4	4	4	4	4	4
Gas	13	13	13	14	14	13	25	25	25	25	27
Other	0	0	0	0	0	0	0	0	0	0	0
Internal Combustion	0	0	0	0	0	0	5	5	5	5	5
FUEL COMB. OTHER	8	8	8	8	8	8	7	7	6	7	7
Commercial/Institutional Coal	0	0	0	0	0	0	0	0	0	0	0
Commercial/Institutional Oil	2	2	2	2	2	2	2	2	2	2	2
Commercial/Institutional Gas	1	1	1	1	1	1	1	1	1	1	1
Misc. Fuel Comb. (Except Residential)	NA	NA	NA	NA	NA	NA	0	0	0	0	0
Residential Other	5	5	5	5	5	5	5	5	4	4	4
<b>Industrial Processes</b>	<b>351</b>	<b>355</b>	<b>359</b>	<b>364</b>	<b>364</b>	<b>365</b>	<b>271</b>	<b>277</b>	<b>284</b>	<b>289</b>	<b>296</b>
CHEMICAL & ALLIED PRODUCT MFG	183	183	183	183	183	183	123	125	130	133	137
Organic Chemical Mfg	NA	NA	NA	NA	NA	NA	0	0	0	0	0
Inorganic Chemical Mfg	NA	NA	NA	NA	NA	NA	0	0	0	0	0
Polymer & Resin Mfg	NA	NA	NA	NA	NA	NA	0	0	0	0	0
Agricultural Chemicals	183	183	183	183	183	183	109	111	115	118	121
ammonium nitrate/urea mfg.	111	111	111	111	111	111	41	42	43	44	46
other	71	71	71	71	71	71	68	70	72	73	76
Other Chemical Mfg	NA	NA	NA	NA	NA	NA	13	14	14	15	15
METALS PROCESSING	6	6	6	6	6	6	4	5	5	5	5
Non-Ferrous Metals Processing	0	0	0	0	0	0	0	0	0	0	0
Ferrous Metals Processing	6	6	6	6	6	6	4	5	5	5	5
Metals Processing NEC	0	0	0	0	0	0	0	0	0	0	0
PETROLEUM & RELATED INDUSTRIES	43	43	43	43	43	43	16	17	17	17	17
Oil & Gas Production	0	0	0	0	0	0	0	0	0	0	0
Petroleum Refineries & Related Industries	43	43	43	43	43	43	16	17	17	17	17
catalytic cracking	43	43	43	43	43	43	16	17	17	17	17
other	0	0	0	0	0	0	0	0	0	0	0
<b>OTHER INDUSTRIAL PROCESSES</b>	<b>38</b>	<b>38</b>	<b>39</b>	<b>39</b>	<b>40</b>	<b>40</b>	<b>43</b>	<b>45</b>	<b>45</b>	<b>45</b>	<b>47</b>
Agriculture, Food, & Kindred Products	2	2	3	3	2	2	4	4	4	4	4
Textiles, Leather, & Apparel Products	NA	NA	NA	NA	NA	NA	0	0	0	0	0
Wood, Pulp & Paper, & Publishing Products	NA	NA	NA	NA	NA	NA	1	1	1	1	1
Rubber & Miscellaneous Plastic Products	NA	NA	NA	NA	NA	NA	0	0	0	0	0
Mineral Products	0	0	0	0	0	0	0	0	0	0	0
Machinery Products	NA	NA	NA	NA	NA	NA	0	0	0	0	0
Electronic Equipment	NA	NA	NA	NA	NA	NA	0	0	0	0	0
Miscellaneous Industrial Processes	35	36	37	38	38	39	39	40	40	40	42

**Table A-10.** National Ammonia Emissions Estimates, 1990–2000 (thousand short tons) (continued)

Source Category	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
<b>SOLVENT UTILIZATION</b>											
Degreasing	NA	NA	NA	NA	NA	NA	NA	0	0	0	0
Graphic Arts	NA	NA	NA	NA	NA	NA	0	0	0	0	0
Dry Cleaning	NA	NA	NA	NA	NA	NA	0	0	0	0	0
Surface Coating	NA	NA	NA	NA	NA	NA	0	0	0	0	0
Other Industrial	NA	NA	NA	NA	NA	NA	0	0	0	0	0
<b>STORAGE &amp; TRANSPORT</b>	0	0	0	0	0	0	1	1	1	1	1
Bulk Terminals & Plants	NA	NA	NA	NA	NA	NA	0	0	0	0	0
Petroleum & Petroleum Product Storage	NA	NA	NA	NA	NA	NA	1	1	1	1	1
Petroleum & Petroleum Product Transport	NA	NA	NA	NA	NA	NA	0	0	0	0	0
Organic Chemical Storage	NA	NA	NA	NA	NA	NA	0	0	0	0	0
Inorganic Chemical Storage	NA	NA	NA	NA	NA	NA	0	0	0	0	0
Bulk Materials Storage	0	0	0	0	0	0	0	0	0	0	0
<b>WASTE DISPOSAL &amp; RECYCLING</b>	82	86	89	93	93	93	84	84	86	88	89
Incineration	NA	NA	NA	NA	NA	NA	0	0	0	0	0
Open Burning	NA	NA	NA	NA	NA	NA	0	0	0	0	0
POTW	82	86	89	93	93	93	84	84	86	87	89
wastewater treatment	82	86	89	93	93	93	84	84	86	87	89
other	NA	NA	NA	NA	NA	NA	0	0	0	0	0
Industrial Waste Water	NA	NA	NA	NA	NA	NA	0	0	0	0	0
TSDF	NA	NA	NA	NA	NA	NA	0	0	0	0	0
Landfills	NA	NA	NA	NA	NA	NA	0	0	0	0	0
Other	NA	NA	NA	NA	NA	NA	0	0	0	0	0
<b>Transportation</b>	194	205	214	224	239	258	238	267	262	265	268
<b>ON-ROAD VEHICLES</b>	188	198	208	218	233	252	229	258	252	261	264
Light-Duty Gas Vehicles & Motorcycles	149	151	155	159	168	180	157	168	169	173	174
Light-Duty Gas Trucks	38	46	52	58	63	70	63	80	72	78	80
Heavy-Duty Gas Vehicles	0	0	1	1	1	1	4	4	4	4	4
Diesels	0	0	0	0	0	0	6	6	6	6	6
<b>NON-ROAD ENGINES AND VEHICLES</b>	6	7	7	7	7	7	9	9	10	10	10
Non-Road Gasoline	1	1	1	1	1	1	1	1	1	1	1
Non-Road Diesel	2	3	3	3	3	3	3	3	3	3	3
Aircraft	NA	NA	NA	NA	NA	NA	3	3	4	NA	NA
Marine Vessels	1	1	1	1	1	1	1	1	1	1	1
Railroads	2	2	2	2	2	2	1	1	1	NA	NA
<b>NATURAL SOURCES</b>	0	0	0	0	0	0	0	0	0	0	0
Biogenic	0	0	0	0	0	0	0	0	0	0	0
<b>MISCELLANEOUS</b>	3,757	3,799	3,841	3,897	3,953	4,009	4,138	4,196	4,293	4,311	4,349
Agriculture & Forestry	3,757	3,799	3,841	3,897	3,953	4,009	4,138	4,196	4,293	4,311	4,349
agricultural crops	420	446	473	499	525	551	649	678	739	724	724
agricultural livestock	3,337	3,353	3,368	3,398	3,428	3,458	3,489	3,518	3,554	3,587	3,625
Fugitive Dust	0	0	0	0	0	0	0	0	0	0	0
<b>TOTAL ALL SOURCES</b>	4,327	4,383	4,440	4,512	4,583	4,658	4,694	4,787	4,886	4,914	4,963

**Note:** Some columns may not sum to totals due to rounding.

**Table A-11.** National Long-Term Air Quality Trends, 1981–2000

Year	CO 2nd Max. 8-hr ppm	Pb Max. Qtr. µg/m³	NO₂ Arith. Mean ppm	Ozone 2nd Max. 1-hr ppm	PM₁₀ Wtd. Arith. Mean µg/m³	SO₂ Arith. Mean ppm
<b>1981–90</b>	<b>321 sites</b>	<b>228 sites</b>	<b>169 sites</b>	<b>471 sites</b>		<b>456 sites</b>
1981	8.4	0.58	0.024	0.126	—	0.0102
1982	8.1	0.58	0.023	0.125	—	0.0095
1983	7.9	0.47	0.023	0.137	—	0.0093
1984	7.8	0.45	0.023	0.125	—	0.0095
1985	7.1	0.28	0.023	0.123	—	0.0090
1986	7.2	0.18	0.023	0.118	—	0.0088
1987	6.7	0.13	0.023	0.125	—	0.0086
1988	6.4	0.12	0.023	0.136	—	0.0087
1989	6.4	0.10	0.023	0.116	—	0.0085
1990	5.9	0.08	0.022	0.114	—	0.0079
<b>1991–00</b>	<b>327 sites</b>	<b>130 sites</b>	<b>234 sites</b>	<b>738 sites</b>	<b>886 sites</b>	<b>457 sites</b>
1991	5.6	0.08	0.019	0.111	29.4	0.0081
1992	5.3	0.07	0.019	0.105	27.3	0.0076
1993	5.0	0.06	0.019	0.107	26.6	0.0074
1994	5.1	0.05	0.020	0.106	26.4	0.0072
1995	4.6	0.05	0.019	0.112	25.1	0.0057
1996	4.3	0.05	0.019	0.105	24.2	0.0057
1997	4.1	0.04	0.018	0.104	24.1	0.0056
1998	3.9	0.04	0.018	0.110	23.8	0.0055
1999	3.7	0.04	0.018	0.107	24.1	0.0053
2000	3.4	0.04	0.017	0.100	23.8	0.0051

**Table A-12.** National Air Quality Trends by Monitoring Location, 1981–2000

Statistic	# of Sites	Units	Location	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
<b>Carbon Monoxide</b>													
2nd Max. 8-hr.	4	ppm	Rural	4.7	4.9	3.8	3.3	4.1	3.8	4.5	3.8	3.5	3.2
2nd Max. 8-hr.	136	ppm	Suburban	8.0	7.8	7.5	7.5	7.3	6.6	6.6	6.4	6.1	6.1
2nd Max. 8-hr.	178	ppm	Urban	9.1	8.8	8.6	8.3	8.2	7.5	7.6	7.0	6.8	6.6
<b>Lead</b>													
Max. Qtr.	10	µg/m³	Rural	1.12	0.98	0.94	1.03	0.37	0.48	0.29	0.25	0.24	0.17
Max. Qtr.	107	µg/m³	Suburban	0.57	0.52	0.45	0.43	0.30	0.19	0.14	0.12	0.10	0.09
Max. Qtr.	106	µg/m³	Urban	0.54	0.60	0.44	0.41	0.26	0.15	0.11	0.09	0.08	0.06
<b>Nitrogen Dioxide</b>													
Arith. Mean	22	ppm	Rural	0.009	0.008	0.008	0.008	0.008	0.009	0.009	0.008	0.008	0.008
Arith. Mean	81	ppm	Suburban	0.025	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.023
Arith. Mean	64	ppm	Urban	0.028	0.027	0.027	0.028	0.028	0.028	0.028	0.028	0.027	0.026
<b>Ozone</b>													
2nd Max. 1-hr.	127	ppm	Rural	0.117	0.114	0.126	0.117	0.115	0.112	0.117	0.129	0.110	0.111
2nd Max. 1-hr.	229	ppm	Suburban	0.131	0.130	0.142	0.128	0.127	0.122	0.129	0.141	0.119	0.116
2nd Max. 1-hr.	105	ppm	Urban	0.128	0.126	0.140	0.127	0.123	0.119	0.126	0.134	0.116	0.112
4th Max. 8-hr.	127	ppm	Rural	0.089	0.087	0.096	0.089	0.089	0.087	0.091	0.102	0.086	0.087
4th Max. 8-hr.	227	ppm	Suburban	0.093	0.093	0.102	0.092	0.093	0.090	0.095	0.105	0.088	0.086
4th Max. 8-hr.	104	ppm	Urban	0.090	0.086	0.098	0.091	0.090	0.086	0.091	0.098	0.086	0.082
<b>PM<sub>10</sub></b>													
Wtd. Arith. Mean	—	µg/m³	Rural	—	—	—	—	—	—	—	—	—	—
Wtd. Arith. Mean	—	µg/m³	Suburban	—	—	—	—	—	—	—	—	—	—
Wtd. Arith. Mean	—	µg/m³	Urban	—	—	—	—	—	—	—	—	—	—
<b>Sulfur Dioxide</b>													
Arith. Mean	120	ppm	Rural	0.0083	0.0076	0.0075	0.0079	0.0076	0.0075	0.0075	0.0075	0.0073	0.0070
Arith. Mean	187	ppm	Suburban	0.0102	0.0096	0.0094	0.0098	0.0094	0.0090	0.0086	0.0088	0.0084	0.0079
Arith. Mean	142	ppm	Urban	0.0118	0.0111	0.0106	0.0106	0.0098	0.0098	0.0095	0.0098	0.0096	0.0088

\* PM<sub>10</sub> trend data is not available for this 10-year period.

**Table A-12.** National Air Quality Trends by Monitoring Location, 1991–2000

Statistic	# of Sites	Units	Location	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
<b>Carbon Monoxide</b>													
2nd Max. 8-hr.	13	ppm	Rural	2.3	2.3	2.0	2.2	2.2	1.9	1.7	1.7	1.6	1.6
2nd Max. 8-hr.	153	ppm	Suburban	5.4	5.1	4.9	5.1	4.4	4.1	4.0	3.8	3.7	3.4
2nd Max. 8-hr.	217	ppm	Urban	6.0	5.6	5.2	5.4	4.9	4.6	4.3	4.0	3.9	3.5
<b>Lead</b>													
Max. Qtr.	4	µg/m³	Rural	0.03	0.03	0.04	0.04	0.11	0.03	0.02	0.04	0.03	0.04
Max. Qtr.	58	µg/m³	Suburban	0.07	0.06	0.05	0.05	0.05	0.04	0.04	0.04	0.04	0.04
Max. Qtr.	63	µg/m³	Urban	0.09	0.07	0.07	0.06	0.05	0.05	0.05	0.04	0.04	0.04
<b>Nitrogen Dioxide</b>													
Arith. Mean	39	ppm	Rural	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.008	0.009	0.008
Arith. Mean	105	ppm	Suburban	0.020	0.020	0.019	0.020	0.020	0.019	0.018	0.018	0.019	0.018
Arith. Mean	87	ppm	Urban	0.023	0.023	0.023	0.024	0.023	0.022	0.022	0.022	0.022	0.021
<b>Ozone</b>													
2nd Max. 1-hr.	259	ppm	Rural	0.105	0.101	0.103	0.102	0.107	0.102	0.101	0.108	0.105	0.099
2nd Max. 1-hr.	332	ppm	Suburban	0.116	0.108	0.111	0.110	0.115	0.107	0.108	0.113	0.110	0.103
2nd Max. 1-hr.	127	ppm	Urban	0.110	0.106	0.105	0.106	0.110	0.106	0.102	0.105	0.104	0.097
4th Max. 8-hr.	263	ppm	Rural	0.082	0.080	0.081	0.081	0.085	0.082	0.082	0.086	0.086	0.080
4th Max. 8-hr.	332	ppm	Suburban	0.088	0.082	0.084	0.085	0.090	0.084	0.084	0.089	0.087	0.081
4th Max. 8-hr.	126	ppm	Urban	0.082	0.079	0.079	0.080	0.084	0.081	0.079	0.082	0.081	0.075
<b>PM<sub>10</sub></b>													
Wtd. Arith. Mean	140	µg/m³	Rural	24.3	22.8	22.0	21.9	20.3	20.3	20.1	19.7	20.4	20.3
Wtd. Arith. Mean	353	µg/m³	Suburban	30.0	28.0	27.2	27.1	26.0	24.8	24.8	24.5	24.9	24.4
Wtd. Arith. Mean	373	µg/m³	Urban	30.9	28.5	27.8	27.6	26.1	25.4	25.1	24.9	24.9	24.7
<b>Sulfur Dioxide</b>													
Arith. Mean	119	ppm	Rural	0.0068	0.0065	0.0067	0.0063	0.0053	0.0050	0.0048	0.0047	0.0045	0.0044
Arith. Mean	197	ppm	Suburban	0.0087	0.0081	0.0079	0.0076	0.0059	0.0060	0.0059	0.0059	0.0058	0.0056
Arith. Mean	131	ppm	Urban	0.0087	0.0079	0.0076	0.0076	0.0060	0.0058	0.0057	0.0056	0.0055	0.0052

**Table A-13.** National Air Quality Trends Statistics by EPA Region, 1981–1990

Statistic	# of Sites	Units	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
<b>Region 1</b>												
CO	2nd Max. 8-hr.	11	ppm	9.1	9.6	9.2	8.9	7.0	7.5	6.7	5.7	5.8
Pb	Max. Qtr.	15	µg/m³	0.51	0.56	0.44	0.38	0.32	0.12	0.08	0.06	0.05
NO <sub>2</sub>	Arith. Mean	4	ppm	0.030	0.028	0.026	0.032	0.031	0.029	0.030	0.030	0.028
O <sub>3</sub>	2nd Max. 1-hr.	23	ppm	0.142	0.150	0.166	0.153	0.140	0.123	0.132	0.161	0.129
O <sub>3</sub>	4th Max. 8-hr.	23	ppm	0.101	0.109	0.119	0.105	0.102	0.090	0.095	0.120	0.094
PM <sub>10</sub> *	Wtd. Arith. Mean	—	µg/m³	—	—	—	—	—	—	—	—	—
SO <sub>2</sub>	Arith. Mean	49	ppm	0.0096	0.0095	0.0089	0.0097	0.0093	0.0100	0.0098	0.0100	0.0093
<b>Region 2</b>												
CO	2nd Max. 8-hr.	22	ppm	9.4	8.5	7.8	8.3	6.7	7.4	6.4	6.2	6.1
Pb	Max. Qtr.	12	µg/m³	0.73	0.73	0.65	0.67	0.50	0.16	0.11	0.08	0.05
NO <sub>2</sub>	Arith. Mean	10	ppm	0.031	0.032	0.033	0.032	0.031	0.030	0.031	0.031	0.030
O <sub>3</sub>	2nd Max. 1-hr.	28	ppm	0.134	0.136	0.153	0.131	0.131	0.123	0.141	0.160	0.118
O <sub>3</sub>	4th Max. 8-hr.	28	ppm	0.100	0.098	0.112	0.096	0.099	0.095	0.106	0.121	0.092
PM <sub>10</sub> *	Wtd. Arith. Mean	—	µg/m³	—	—	—	—	—	—	—	—	—
SO <sub>2</sub>	Arith. Mean	37	ppm	0.0142	0.0132	0.0124	0.0130	0.0115	0.0112	0.0107	0.0115	0.0109
<b>Region 3</b>												
CO	2nd Max. 8-hr.	41	ppm	7.0	7.0	6.8	7.6	5.7	6.3	5.9	5.5	5.3
Pb	Max. Qtr.	30	µg/m³	0.40	0.44	0.34	0.35	0.22	0.15	0.12	0.14	0.10
NO <sub>2</sub>	Arith. Mean	36	ppm	0.023	0.023	0.024	0.025	0.024	0.024	0.025	0.024	0.023
O <sub>3</sub>	2nd Max. 1-hr.	64	ppm	0.122	0.124	0.138	0.119	0.118	0.113	0.128	0.150	0.111
O <sub>3</sub>	4th Max. 8-hr.	64	ppm	0.092	0.095	0.107	0.092	0.093	0.089	0.100	0.116	0.088
PM <sub>10</sub> *	Wtd. Arith. Mean	—	µg/m³	—	—	—	—	—	—	—	—	—
SO <sub>2</sub>	Arith. Mean	62	ppm	0.0141	0.0134	0.0133	0.0141	0.0131	0.0136	0.0132	0.0138	0.0136
<b>Region 4</b>												
CO	2nd Max. 8-hr.	49	ppm	7.8	7.3	7.4	7.7	6.2	6.2	5.9	5.6	6.0
Pb	Max. Qtr.	38	µg/m³	0.60	0.70	0.61	0.58	0.28	0.22	0.15	0.13	0.12
NO <sub>2</sub>	Arith. Mean	10	ppm	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.017
O <sub>3</sub>	2nd Max. 1-hr.	70	ppm	0.108	0.106	0.120	0.108	0.105	0.114	0.113	0.124	0.103
O <sub>3</sub>	4th Max. 8-hr.	70	ppm	0.084	0.081	0.092	0.084	0.082	0.087	0.089	0.097	0.080
PM <sub>10</sub> *	Wtd. Arith. Mean	—	µg/m³	—	—	—	—	—	—	—	—	—
SO <sub>2</sub>	Arith. Mean	59	ppm	0.0088	0.0078	0.0073	0.0072	0.0071	0.0072	0.0074	0.0077	0.0071
<b>Region 5</b>												
CO	2nd Max. 8-hr.	40	ppm	7.8	7.1	7.1	7.5	5.8	6.0	6.2	5.4	5.6
Pb	Max. Qtr.	44	µg/m³	0.47	0.57	0.38	0.33	0.21	0.13	0.10	0.10	0.08
NO <sub>2</sub>	Arith. Mean	17	ppm	0.021	0.021	0.022	0.022	0.021	0.021	0.022	0.021	0.022
O <sub>3</sub>	2nd Max. 1-hr.	97	ppm	0.116	0.113	0.129	0.110	0.106	0.108	0.119	0.131	0.107
O <sub>3</sub>	4th Max. 8-hr.	97	ppm	0.087	0.086	0.097	0.083	0.082	0.082	0.090	0.104	0.085
PM <sub>10</sub> *	Wtd. Arith. Mean	—	µg/m³	—	—	—	—	—	—	—	—	—
SO <sub>2</sub>	Arith. Mean	124	ppm	0.0113	0.0106	0.0105	0.0107	0.0102	0.0096	0.0093	0.0092	0.0092

\* PM<sub>10</sub> trend data is not available for this 10-year period.

**Table A-13.** National Air Quality Trends Statistics by EPA Region, 1981–1990 (continued)

Statistic	# of Sites	Units	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
<b>Region 6</b>												
CO	2nd Max. 8-hr.	25	ppm	7.9	7.8	7.3	7.2	7.3	7.1	7.4	6.4	6.3
Pb	Max. Qtr.	22	µg/m³	0.71	0.62	0.58	0.55	0.35	0.19	0.16	0.13	0.12
NO <sub>2</sub>	Arith. Mean	14	ppm	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.016
O <sub>3</sub>	2nd Max. 1-hr.	41	ppm	0.129	0.124	0.124	0.124	0.121	0.115	0.119	0.123	0.120
O <sub>3</sub>	4th Max. 8-hr.	41	ppm	0.091	0.087	0.089	0.090	0.090	0.084	0.088	0.091	0.085
PM <sub>10</sub> *	Wtd. Arith. Mean	—	µg/m³	—	—	—	—	—	—	—	—	—
SO <sub>2</sub>	Arith. Mean	32	ppm	0.0076	0.0072	0.0079	0.0070	0.0074	0.0065	0.0062	0.0059	0.0058
<b>Region 7</b>												
CO	2nd Max. 8-hr.	15	ppm	7.0	6.9	5.6	6.4	5.2	6.3	6.0	5.3	5.5
Pb	Max. Qtr.	19	µg/m³	0.21	0.17	0.17	0.17	0.13	0.09	0.05	0.04	0.04
NO <sub>2</sub>	Arith. Mean	9	ppm	0.015	0.017	0.016	0.016	0.015	0.016	0.017	0.016	0.015
O <sub>3</sub>	2nd Max. 1-hr.	24	ppm	0.104	0.100	0.116	0.113	0.104	0.103	0.110	0.114	0.095
O <sub>3</sub>	4th Max. 8-hr.	24	ppm	0.068	0.069	0.088	0.085	0.075	0.074	0.079	0.088	0.074
PM <sub>10</sub> *	Wtd. Arith. Mean	—	µg/m³	—	—	—	—	—	—	—	—	—
SO <sub>2</sub>	Arith. Mean	19	ppm	0.0087	0.0093	0.0092	0.0088	0.0081	0.0079	0.0074	0.0072	0.0074
<b>Region 8</b>												
CO	2nd Max. 8-hr.	16	ppm	10.9	10.6	11.9	10.8	9.7	10.9	9.3	8.7	7.4
Pb	Max. Qtr.	6	µg/m³	1.18	1.23	1.13	1.31	0.98	0.79	0.68	0.65	0.51
NO <sub>2</sub>	Arith. Mean	15	ppm	0.624	0.586	0.449	0.416	0.246	0.189	0.135	0.104	0.091
O <sub>3</sub>	2nd Max. 1-hr.	13	ppm	0.101	0.103	0.110	0.104	0.102	0.109	0.097	0.104	0.103
O <sub>3</sub>	4th Max. 8-hr.	13	ppm	0.073	0.074	0.078	0.075	0.076	0.076	0.075	0.078	0.077
PM <sub>10</sub> *	Wtd. Arith. Mean	—	µg/m³	—	—	—	—	—	—	—	—	—
SO <sub>2</sub>	Arith. Mean	20	ppm	0.0064	0.0060	0.0055	0.0048	0.0050	0.0045	0.0043	0.0040	0.0043
<b>Region 9</b>												
CO	2nd Max. 8-hr.	77	ppm	8.1	8.0	7.9	7.0	7.8	7.5	6.5	7.1	7.0
Pb	Max. Qtr.	36	µg/m³	0.62	0.59	0.45	0.42	0.25	0.19	0.13	0.10	0.09
NO <sub>2</sub>	Arith. Mean	54	ppm	0.030	0.028	0.027	0.027	0.028	0.028	0.027	0.029	0.029
O <sub>3</sub>	2nd Max. 1-hr.	105	ppm	0.153	0.149	0.161	0.152	0.156	0.138	0.141	0.144	0.138
O <sub>3</sub>	4th Max. 8-hr.	105	ppm	0.101	0.097	0.106	0.103	0.105	0.097	0.098	0.100	0.096
PM <sub>10</sub> *	Wtd. Arith. Mean	—	µg/m³	—	—	—	—	—	—	—	—	—
SO <sub>2</sub>	Arith. Mean	48	ppm	0.0056	0.0043	0.0039	0.0044	0.0041	0.0035	0.0031	0.0033	0.0032
<b>Region 10</b>												
CO	2nd Max. 8-hr.	25	ppm	11.6	11.5	11.2	10.3	10.5	9.4	9.3	9.1	8.4
Pb	Max. Qtr.	6	µg/m³	1.69	0.65	0.54	0.53	0.42	0.23	0.15	0.10	0.07
NO <sub>2</sub>	Arith. Mean	—	ppm	—	—	—	—	—	—	—	—	—
O <sub>3</sub>	2nd Max. 1-hr.	6	ppm	0.121	0.108	0.093	0.098	0.105	0.107	0.098	0.110	0.089
O <sub>3</sub>	4th Max. 8-hr.	6	ppm	0.084	0.075	0.063	0.066	0.074	0.078	0.073	0.072	0.064
PM <sub>10</sub> *	Wtd. Arith. Mean	—	µg/m³	—	—	—	—	—	—	—	—	—
SO <sub>2</sub>	Arith. Mean	5	ppm	0.0101	0.0096	0.0088	0.0096	0.0091	0.0100	0.0097	0.0071	0.0067

\* PM<sub>10</sub> trend data is not available for this 10-year period.

**Table A-13.** National Air Quality Trends Statistics by EPA Region, 1991–2000

Statistic	# of Sites	Units	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
<b>Region 1</b>												
CO	2nd Max. 8-hr.	18	ppm	5.5	5.6	4.8	5.9	5.3	4.8	4.1	3.7	3.7
Pb	Max. Qtr.	1	µg/m³	0.69	0.19	0.02	0.02	0.04	0.03	0.03	0.02	0.01
NO <sub>2</sub>	Arith. Mean	15	ppm	0.022	0.020	0.021	0.022	0.019	0.020	0.019	0.020	0.019
O <sub>3</sub>	2nd Max. 1-hr.	41	ppm	0.118	0.127	0.110	0.119	0.114	0.116	0.102	0.116	0.106
O <sub>3</sub>	4th Max. 8-hr.	41	ppm	0.096	0.086	0.088	0.086	0.090	0.081	0.090	0.084	0.087
PM <sub>10</sub>	Wtd. Arith. Mean	62	µg/m³	23.2	20.5	20.2	20.6	18.7	19.3	19.5	19.3	18.9
SO <sub>2</sub>	Arith. Mean	40	ppm	0.0077	0.0072	0.0069	0.0068	0.0053	0.0051	0.0052	0.0052	0.0048
<b>Region 2</b>												
CO	2nd Max. 8-hr.	28	ppm	6.0	5.4	4.9	5.7	5.0	4.3	3.9	3.5	3.7
Pb	Max. Qtr.	4	µg/m³	0.05	0.05	0.07	0.07	0.06	0.06	0.06	0.06	0.05
NO <sub>2</sub>	Arith. Mean	11	ppm	0.029	0.028	0.028	0.029	0.027	0.028	0.027	0.027	0.027
O <sub>3</sub>	2nd Max. 1-hr.	37	ppm	0.121	0.109	0.109	0.104	0.115	0.102	0.111	0.107	0.114
O <sub>3</sub>	4th Max. 8-hr.	37	ppm	0.098	0.085	0.088	0.084	0.094	0.081	0.091	0.087	0.093
PM <sub>10</sub>	Wtd. Arith. Mean	65	µg/m³	26.4	23.8	23.8	24.3	21.6	22.5	23.0	22.1	21.8
SO <sub>2</sub>	Arith. Mean	42	ppm	0.0088	0.0081	0.0075	0.0077	0.0059	0.0060	0.0055	0.0054	0.0053
<b>Region 3</b>												
CO	2nd Max. 8-hr.	39	ppm	4.9	4.6	4.6	5.2	4.2	3.8	3.6	3.4	3.2
Pb	Max. Qtr.	16	µg/m³	0.09	0.06	0.06	0.06	0.04	0.04	0.04	0.04	0.04
NO <sub>2</sub>	Arith. Mean	35	ppm	0.021	0.021	0.021	0.022	0.020	0.021	0.020	0.020	0.019
O <sub>3</sub>	2nd Max. 1-hr.	79	ppm	0.117	0.103	0.116	0.111	0.117	0.105	0.116	0.115	0.120
O <sub>3</sub>	4th Max. 8-hr.	79	ppm	0.095	0.083	0.093	0.088	0.094	0.084	0.093	0.095	0.084
PM <sub>10</sub>	Wtd. Arith. Mean	55	µg/m³	32.6	29.5	29.2	29.2	27.1	26.9	25.8	24.6	23.6
SO <sub>2</sub>	Arith. Mean	79	ppm	0.0126	0.0117	0.0117	0.0117	0.0085	0.0086	0.0090	0.0086	0.0083
<b>Region 4</b>												
CO	2nd Max. 8-hr.	62	ppm	4.8	4.8	4.9	4.6	4.3	3.7	4.0	3.6	3.7
Pb	Max. Qtr.	21	µg/m³	0.04	0.04	0.03	0.03	0.03	0.02	0.02	0.02	0.03
NO <sub>2</sub>	Arith. Mean	32	ppm	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014
O <sub>3</sub>	2nd Max. 1-hr.	144	ppm	0.097	0.096	0.104	0.100	0.104	0.101	0.102	0.112	0.109
O <sub>3</sub>	4th Max. 8-hr.	144	ppm	0.075	0.077	0.082	0.081	0.083	0.081	0.082	0.090	0.089
PM <sub>10</sub>	Wtd. Arith. Mean	159	µg/m³	28.0	26.4	25.9	25.2	24.8	23.8	23.9	24.7	24.0
SO <sub>2</sub>	Arith. Mean	80	ppm	0.0057	0.0054	0.0055	0.0051	0.0043	0.0044	0.0045	0.0046	0.0045
<b>Region 5</b>												
CO	2nd Max. 8-hr.	45	ppm	4.6	4.4	4.3	5.0	4.0	3.4	3.3	3.3	3.0
Pb	Max. Qtr.	36	µg/m³	0.10	0.09	0.09	0.09	0.07	0.06	0.06	0.06	0.05
NO <sub>2</sub>	Arith. Mean	12	ppm	0.021	0.022	0.022	0.023	0.023	0.023	0.022	0.023	0.022
O <sub>3</sub>	2nd Max. 1-hr.	142	ppm	0.109	0.098	0.097	0.104	0.111	0.103	0.102	0.106	0.105
O <sub>3</sub>	4th Max. 8-hr.	142	ppm	0.087	0.078	0.077	0.083	0.090	0.085	0.083	0.085	0.088
PM <sub>10</sub>	Wtd. Arith. Mean	154	µg/m³	29.5	27.7	26.6	28.3	27.5	24.8	24.9	26.5	25.2
SO <sub>2</sub>	Arith. Mean	102	ppm	0.0092	0.0081	0.0082	0.0078	0.0062	0.0062	0.0060	0.0060	0.0059

**Table A-13.** National Air Quality Trends Statistics by EPA Region, 1991–2000 (continued)

Statistic	# of Sites	Units	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
<b>Region 6</b>												
CO	2nd Max. 8-hr.	31	ppm	5.6	5.5	5.5	4.6	4.5	4.9	4.4	4.0	3.6
Pb	Max. Qtr.	11	µg/m³	0.15	0.11	0.10	0.08	0.12	0.12	0.06	0.08	0.06
NO <sub>2</sub>	Arith. Mean	28	ppm	0.013	0.014	0.014	0.015	0.015	0.015	0.014	0.014	0.013
O <sub>3</sub>	2nd Max. 1-hr.	76	ppm	0.112	0.109	0.110	0.109	0.120	0.109	0.113	0.115	0.111
O <sub>3</sub>	4th Max. 8-hr.	76	ppm	0.079	0.078	0.080	0.082	0.089	0.082	0.083	0.086	0.086
PM <sub>10</sub>	Wtd. Arith. Mean	50	µg/m³	25.5	25.2	24.4	24.7	25.9	24.9	23.1	24.0	26.1
SO <sub>2</sub>	Arith. Mean	27	ppm	0.0062	0.0064	0.0054	0.0048	0.0046	0.0048	0.0044	0.0042	0.0037
<b>Region 7</b>												
CO	2nd Max. 8-hr.	20	ppm	5.2	4.6	4.4	4.3	4.1	4.2	3.8	4.4	3.5
Pb	Max. Qtr.	4	µg/m³	0.04	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01
NO <sub>2</sub>	Arith. Mean	11	ppm	0.015	0.016	0.015	0.016	0.016	0.016	0.015	0.016	0.017
O <sub>3</sub>	2nd Max. 1-hr.	28	ppm	0.092	0.090	0.086	0.098	0.102	0.094	0.094	0.099	0.100
O <sub>3</sub>	4th Max. 8-hr.	28	ppm	0.075	0.074	0.066	0.078	0.081	0.076	0.076	0.078	0.080
PM <sub>10</sub>	Wtd. Arith. Mean	46	µg/m³	29.2	28.6	27.5	28.0	27.5	28.2	26.2	26.4	26.2
SO <sub>2</sub>	Arith. Mean	25	ppm	0.0073	0.0067	0.0065	0.0068	0.0054	0.0052	0.0047	0.0045	0.0047
<b>Region 8</b>												
CO	2nd Max. 8-hr.	20	ppm	6.9	7.0	5.9	5.5	5.0	5.0	4.7	4.0	4.0
Pb	Max. Qtr.	8	µg/m³	0.06	0.06	0.06	0.04	0.04	0.03	0.03	0.04	0.04
NO <sub>2</sub>	Arith. Mean	12	ppm	0.013	0.013	0.014	0.015	0.014	0.014	0.013	0.014	0.013
O <sub>3</sub>	2nd Max. 1-hr.	18	ppm	0.089	0.087	0.084	0.087	0.087	0.090	0.084	0.096	0.089
O <sub>3</sub>	4th Max. 8-hr.	18	ppm	0.067	0.066	0.065	0.068	0.067	0.070	0.067	0.076	0.070
PM <sub>10</sub>	Wtd. Arith. Mean	99	µg/m³	26.6	25.3	24.3	23.6	20.8	20.9	20.2	20.1	19.8
SO <sub>2</sub>	Arith. Mean	24	ppm	0.0074	0.0082	0.0080	0.0070	0.0060	0.0048	0.0037	0.0035	0.0034
<b>Region 9</b>												
CO	2nd Max. 8-hr.	97	ppm	5.9	5.1	4.7	5.1	4.4	4.3	4.0	4.0	3.9
Pb	Max. Qtr.	24	µg/m³	0.05	0.04	0.04	0.03	0.03	0.02	0.03	0.02	0.03
NO <sub>2</sub>	Arith. Mean	78	ppm	0.023	0.022	0.021	0.022	0.021	0.020	0.019	0.019	0.020
O <sub>3</sub>	2nd Max. 1-hr.	157	ppm	0.125	0.123	0.119	0.116	0.119	0.114	0.102	0.114	0.102
O <sub>3</sub>	4th Max. 8-hr.	157	ppm	0.090	0.090	0.088	0.087	0.088	0.087	0.078	0.085	0.079
PM <sub>10</sub>	Wtd. Arith. Mean	127	µg/m³	36.7	32.2	31.2	30.4	29.9	28.0	28.5	25.9	30.4
SO <sub>2</sub>	Arith. Mean	30	ppm	0.0021	0.0021	0.0018	0.0019	0.0019	0.0019	0.0019	0.0020	0.0021
<b>Region 10</b>												
CO	2nd Max. 8-hr.	27	ppm	8.4	7.7	7.1	6.8	6.6	6.5	6.1	5.4	5.6
Pb	Max. Qtr.	5	µg/m³	0.06	0.04	0.05	0.05	0.05	0.04	0.05	0.06	0.04
NO <sub>2</sub>	Arith. Mean	—	ppm	—	—	—	—	—	—	—	—	—
O <sub>3</sub>	2nd Max. 1-hr.	16	ppm	0.086	0.087	0.080	0.087	0.085	0.095	0.074	0.094	0.073
O <sub>3</sub>	4th Max. 8-hr.	16	ppm	0.062	0.067	0.058	0.063	0.063	0.074	0.057	0.067	0.059
PM <sub>10</sub>	Wtd. Arith. Mean	69	µg/m³	32.0	30.5	30.0	26.6	23.0	22.9	23.2	20.5	21.0
SO <sub>2</sub>	Arith. Mean	8	ppm	0.0063	0.0068	0.0065	0.0061	0.0053	0.0049	0.0048	0.0048	0.0051

**Table A-14.** Maximum Air Quality Concentrations by County, 2000

State	County	CO	Pb	NO <sub>2</sub>	O <sub>3</sub>	O <sub>3</sub>	PM <sub>10</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	SO <sub>2</sub>	
		2000	8-hr	QMax	AM	1-hr	8-hr	Wtd AM	24-hr	Wtd AM	24-hr	AM	24-hr
		Population	(ppm)	(µg/m <sup>3</sup> )	(ppm)	(ppm)	(ppm)	(µg/m <sup>3</sup> )	(µg/m <sup>3</sup> )	(µg/m <sup>3</sup> )	(ppm)	(ppm)	
AL	Baldwin County	140,415	ND	ND	ND	0.12	<b>0.10</b>	ND	ND	IN	IN	ND	ND
AL	Clay County	14,254	ND	ND	ND	0.09	0.08	ND	ND	IN	IN	ND	ND
AL	Colbert County	54,984	ND	ND	ND	ND	ND	ND	IN	IN	IN	0.003	0.017
AL	DeKalb County	64,452	ND	ND	ND	ND	ND	23	44	IN	IN	ND	ND
AL	Elmore County	65,874	ND	ND	ND	0.10	0.08	ND	ND	ND	ND	ND	ND
AL	Escambia County	38,440	ND	ND	ND	ND	ND	26	60	IN	IN	ND	ND
AL	Etowah County	103,459	ND	ND	ND	ND	ND	26	64	IN	IN	ND	ND
AL	Franklin County	31,223	ND	ND	ND	ND	ND	ND	IN	IN	ND	ND	ND
AL	Houston County	88,787	ND	ND	ND	ND	ND	24	70	IN	IN	ND	ND
AL	Jackson County	53,926	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	0.041
AL	Jefferson County	662,047	5	ND	ND	0.12	<b>0.09</b>	IN	125	<b>22.3</b>	53	IN	0.057
AL	Lawrence County	34,803	ND	ND	ND	0.10	0.08	ND	ND	ND	ND	0.002	0.005
AL	Madison County	276,700	2	ND	ND	0.11	<b>0.09</b>	24	80	IN	IN	ND	ND
AL	Marengo County	22,539	ND	ND	ND	ND	ND	23	46	ND	ND	ND	ND
AL	Mobile County	399,843	ND	ND	ND	0.12	<b>0.09</b>	24	150	IN	IN	0.002	0.008
AL	Montgomery County	223,510	ND	ND	ND	0.11	<b>0.09</b>	25	61	IN	IN	ND	ND
AL	Morgan County	111,064	ND	ND	ND	0.11	<b>0.09</b>	23	53	IN	IN	ND	ND
AL	Pike County	29,605	ND	0.57	ND	ND	ND	24	48	ND	ND	ND	ND
AL	Russell County	49,756	ND	ND	ND	ND	ND	26	52	IN	IN	ND	ND
AL	Shelby County	143,293	ND	ND	0.011	<b>0.13</b>	<b>0.10</b>	27	60	IN	IN	ND	ND
AL	Sumter County	14,798	ND	ND	ND	0.09	0.08	ND	ND	IN	IN	ND	ND
AL	Talladega County	80,321	ND	ND	ND	ND	ND	26	68	IN	IN	ND	ND
AL	Tuscaloosa County	164,875	ND	ND	ND	ND	ND	IN	68	IN	IN	ND	ND
AL	Walker County	70,713	ND	ND	ND	ND	ND	IN	IN	IN	IN	ND	ND
AK	Anchorage Municipality	260,283	6	ND	ND	ND	ND	IN	108	6.1	20	ND	ND
AK	Fairbanks North Star Borough	82,840	9	ND	ND	ND	ND	IN	IN	12.2	42	ND	ND
AK	Juneau City and Borough	30,711	ND	ND	ND	ND	ND	IN	27	IN	IN	ND	ND
AK	Ketchikan Gateway Borough	14,070	ND	ND	ND	ND	ND	ND	ND	IN	IN	ND	ND
AK	Matanuska-Susitna Borough	59,322	ND	ND	ND	ND	ND	IN	58	IN	IN	ND	ND
AK	Yukon-Koyukuk Census Area	6,551	ND	ND	ND	0.05	0.04	ND	ND	IN	IN	ND	ND
AZ	Cochise County	117,755	ND	ND	ND	0.08	0.07	38	90	IN	IN	ND	ND
AZ	Coconino County	116,320	ND	ND	ND	0.08	0.07	16	33	IN	IN	ND	ND
AZ	Gila County	51,335	ND	ND	ND	ND	ND	25	65	IN	IN	ND	ND
AZ	Graham County	33,489	ND	ND	ND	ND	ND	IN	IN	ND	ND	ND	ND
AZ	Maricopa County	3,072,149	7	ND	0.036	0.11	<b>0.09</b>	<b>70</b>	<b>232</b>	IN	IN	0.003	0.016
AZ	Mohave County	155,032	ND	ND	ND	ND	ND	15	29	ND	ND	ND	ND
AZ	Navajo County	97,470	ND	ND	ND	ND	ND	IN	34	ND	ND	ND	ND
AZ	Pima County	843,746	5	ND	0.017	0.09	0.08	39	123	IN	IN	0.002	0.007
AZ	Santa Cruz County	38,381	ND	ND	ND	ND	ND	49	120	IN	IN	ND	ND
AZ	Yavapai County	167,517	ND	ND	ND	0.09	0.08	16	34	ND	ND	ND	ND
AZ	Yuma County	160,026	ND	ND	ND	0.08	0.06	IN	IN	ND	ND	ND	ND
AR	Arkansas County	20,749	ND	ND	ND	ND	ND	ND	ND	IN	IN	ND	ND
AR	Ashley County	24,209	ND	ND	ND	ND	ND	ND	ND	IN	IN	ND	ND
AR	Craighead County	82,148	ND	ND	ND	ND	ND	ND	ND	<b>15.2</b>	IN	ND	ND
AR	Crittenden County	50,866	ND	ND	ND	0.11	<b>0.09</b>	ND	ND	<b>15.7</b>	IN	ND	ND
AR	Faulkner County	86,014	ND	ND	ND	ND	ND	ND	ND	IN	IN	ND	ND
AR	Garland County	88,068	ND	ND	ND	ND	ND	ND	ND	IN	IN	ND	ND
AR	Jefferson County	84,278	ND	ND	ND	ND	ND	ND	ND	15.0	27	ND	ND
AR	Marion County	16,140	ND	ND	ND	ND	ND	ND	ND	IN	IN	ND	ND
AR	Miller County	40,443	ND	ND	ND	ND	ND	ND	ND	IN	IN	ND	ND
AR	Mississippi County	51,979	ND	ND	ND	ND	ND	ND	ND	IN	IN	ND	ND
AR	Montgomery County	9,245	ND	ND	ND	0.08	0.07	ND	ND	ND	ND	ND	ND
AR	Newton County	8,608	ND	ND	ND	0.08	0.08	ND	ND	ND	ND	ND	ND
AR	Ouachita County	28,790	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
AR	Phillips County	26,445	ND	ND	ND	ND	ND	ND	ND	14.7	30	ND	ND
AR	Polk County	20,229	ND	ND	ND	ND	ND	ND	ND	12.3	26	ND	ND
AR	Pope County	54,469	ND	ND	ND	ND	ND	ND	ND	14.4	29	ND	ND

**Table A-14.** Maximum Air Quality Concentrations by County, 2000 (continued)

State	County	CO	Pb	NO <sub>2</sub>	O <sub>3</sub>	O <sub>3</sub>	PM <sub>10</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	SO <sub>2</sub>	
		2000 Population	8-hr (ppm)	QMax (µg/m <sup>3</sup> )	AM (ppm)	1-hr (ppm)	8-hr (ppm)	Wtd AM (µg/m <sup>3</sup> )	24-hr Wtd AM (µg/m <sup>3</sup> )	24-hr Wtd AM (µg/m <sup>3</sup> )	24-hr AM (µg/m <sup>3</sup> )	AM (ppm)	24-hr (ppm)
AR	Pulaski County	361,474	3	ND	0.010	0.11	<b>0.09</b>	25	48	<b>15.7</b>	34	0.002	0.007
AR	Sebastian County	115,071	ND	ND	ND	ND	ND	ND	ND	13.5	27	ND	ND
AR	Union County	45,629	ND	ND	ND	ND	ND	ND	ND	IN	IN	0.005	0.030
AR	Washington County	157,715	ND	ND	ND	ND	ND	ND	ND	IN	IN	ND	ND
AR	White County	67,165	ND	ND	ND	ND	ND	ND	ND	IN	IN	ND	ND
CA	Alameda County	1,443,741	3	0.00	0.020	<b>0.13</b>	0.08	22	63	11.2	50	ND	ND
CA	Amador County	35,100	1	ND	ND	0.12	<b>0.09</b>	ND	ND	ND	ND	ND	ND
CA	Butte County	203,171	4	0.00	0.012	0.10	<b>0.09</b>	27	77	<b>16.3</b>	<b>70</b>	ND	ND
CA	Calaveras County	40,554	1	ND	ND	0.12	<b>0.10</b>	18	33	9.0	30	ND	ND
CA	Colusa County	18,804	ND	ND	ND	0.09	0.07	25	88	8.0	26	ND	ND
CA	Contra Costa County	948,816	3	0.00	0.016	0.10	0.08	20	50	10.9	46	0.003	0.021
CA	Del Norte County	27,507	ND	ND	ND	ND	ND	IN	36	ND	ND	ND	ND
CA	El Dorado County	156,299	2	ND	0.011	<b>0.13</b>	<b>0.10</b>	20	50	7.8	22	ND	ND
CA	Fresno County	799,407	6	0.00	0.020	<b>0.15</b>	<b>0.11</b>	41	122	<b>25.4</b>	<b>89</b>	ND	ND
CA	Glenn County	26,453	ND	ND	ND	0.09	0.07	22	75	ND	ND	ND	ND
CA	Humboldt County	126,518	ND	ND	ND	ND	ND	21	46	9.2	22	ND	ND
CA	Imperial County	142,361	<b>10</b>	0.02	IN	<b>0.16</b>	<b>0.09</b>	<b>212</b>	<b>545</b>	<b>16.8</b>	IN	IN	0.007
CA	Inyo County	17,945	ND	ND	ND	0.09	0.08	<b>140</b>	<b>6230</b>	IN	<b>67</b>	ND	ND
CA	Kern County	661,645	5	0.00	0.023	<b>0.14</b>	<b>0.11</b>	46	136	<b>21.7</b>	100	ND	ND
CA	Kings County	129,461	ND	ND	0.014	0.12	<b>0.11</b>	50	129	<b>16.2</b>	IN	ND	ND
CA	Lake County	58,309	ND	ND	ND	0.08	0.06	11	21	IN	IN	ND	ND
CA	Lassen County	33,828	ND	ND	ND	ND	ND	IN	IN	ND	ND	ND	ND
CA	Los Angeles County	9,519,338	<b>10</b>	0.06	0.044	<b>0.17</b>	<b>0.11</b>	46	93	<b>23.9</b>	<b>83</b>	0.003	0.010
CA	Madera County	123,109	ND	ND	0.013	0.10	<b>0.09</b>	ND	ND	ND	ND	ND	ND
CA	Marin County	247,289	2	ND	0.016	0.07	0.05	20	39	ND	ND	ND	ND
CA	Mariposa County	17,130	ND	ND	ND	0.11	<b>0.09</b>	25	56	ND	ND	ND	ND
CA	Mendocino County	86,265	2	ND	0.011	0.07	0.05	23	47	IN	IN	ND	ND
CA	Merced County	210,554	ND	ND	0.012	0.12	<b>0.10</b>	35	89	<b>17.3</b>	47	ND	ND
CA	Modoc County	9,449	ND	ND	ND	ND	ND	23	59	8.3	37	ND	ND
CA	Mono County	12,853	IN	ND	ND	ND	ND	13	<b>1642</b>	IN	IN	ND	ND
CA	Monterey County	401,762	1	ND	0.007	0.08	0.06	30	70	8.0	22	ND	ND
CA	Napa County	124,279	3	ND	0.012	0.08	0.06	16	43	ND	ND	ND	ND
CA	Nevada County	92,033	ND	ND	ND	0.12	<b>0.10</b>	17	49	IN	IN	ND	ND
CA	Orange County	2,846,289	6	ND	0.029	0.12	0.08	40	119	<b>20.4</b>	37	0.002	0.005
CA	Placer County	248,399	2	0.00	0.017	0.12	<b>0.10</b>	24	50	12.2	43	ND	ND
CA	Plumas County	20,824	ND	ND	ND	0.08	0.07	20	61	IN	IN	ND	ND
CA	Riverside County	1,545,387	4	0.05	0.022	<b>0.15</b>	<b>0.11</b>	<b>59</b>	<b>190</b>	<b>28.4</b>	<b>81</b>	0.002	0.026
CA	Sacramento County	1,223,499	6	ND	0.019	<b>0.13</b>	<b>0.10</b>	27	82	12.3	<b>81</b>	IN	0.015
CA	San Benito County	53,234	ND	ND	ND	0.10	0.08	16	31	ND	ND	ND	ND
CA	San Bernardino County	1,709,434	4	0.05	0.038	<b>0.17</b>	<b>0.12</b>	<b>53</b>	108	<b>26.0</b>	<b>70</b>	0.003	0.010
CA	San Diego County	2,813,833	5	0.02	0.024	0.12	<b>0.10</b>	31	86	<b>15.9</b>	IN	0.004	0.011
CA	San Francisco County	776,733	3	0.00	0.020	0.06	0.04	24	53	IN	IN	0.002	0.007
CA	San Joaquin County	563,598	4	0.00	0.020	0.11	0.08	32	79	<b>17.3</b>	IN	ND	ND
CA	San Luis Obispo County	246,681	2	ND	0.012	0.08	0.07	21	102	10.5	41	0.005	0.028
CA	San Mateo County	707,161	4	ND	0.018	0.08	0.05	21	50	10.9	43	ND	ND
CA	Santa Barbara County	399,347	3	0.00	0.018	0.10	0.08	26	62	9.7	19	0.002	0.003
CA	Santa Clara County	1,682,585	7	0.00	0.025	0.10	0.07	27	68	13.5	57	ND	ND
CA	Santa Cruz County	255,602	1	ND	0.005	0.09	0.06	26	50	7.9	18	0.001	0.003
CA	Shasta County	163,256	ND	ND	ND	0.11	0.08	24	47	IN	IN	ND	ND
CA	Sierra County	3,555	ND	ND	ND	ND	ND	IN	IN	ND	ND	ND	ND
CA	Siskiyou County	44,301	ND	ND	ND	0.10	0.06	IN	33	ND	ND	ND	ND
CA	Solano County	394,542	5	ND	0.013	0.10	0.07	18	46	11.6	60	0.002	0.005
CA	Sonoma County	458,614	3	ND	0.013	0.08	0.06	18	40	10.3	40	ND	ND
CA	Stanislaus County	446,997	4	0.00	0.018	0.11	<b>0.09</b>	35	100	<b>18.9</b>	<b>71</b>	ND	ND
CA	Sutter County	78,930	4	ND	0.013	0.10	0.08	28	66	11.5	38	ND	ND
CA	Tehama County	56,039	ND	ND	ND	0.10	0.08	IN	43	ND	ND	ND	ND
CA	Trinity County	13,022	ND	ND	ND	ND	ND	19	48	ND	ND	ND	ND

**Table A-14.** Maximum Air Quality Concentrations by County, 2000 (continued)

State	County	CO	Pb	NO <sub>2</sub>	O <sub>3</sub>	O <sub>3</sub>	PM <sub>10</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	SO <sub>2</sub>	
		2000	8-hr	QMax	AM	1-hr	8-hr	Wtd AM	24-hr	Wtd AM	24-hr	AM	24-hr
		Population	(ppm)	(µg/m <sup>3</sup> )	(ppm)	(ppm)	(ppm)	(µg/m <sup>3</sup> )	(µg/m <sup>3</sup> )	(µg/m <sup>3</sup> )	(ppm)	(ppm)	
CA	Tulare County	368,021	3	ND	0.018	0.12	0.11	53	127	23.7	103	ND	ND
CA	Tuolumne County	54,501	2	ND	ND	0.11	0.10	ND	ND	ND	ND	ND	ND
CA	Ventura County	753,197	3	0.00	0.020	0.12	0.10	31	80	IN	IN	0.002	0.007
CA	Yolo County	168,660	1	ND	0.011	0.10	0.08	26	66	10.3	38	ND	ND
CO	Adams County	363,857	3	0.15	0.016	0.08	0.06	43	134	11.6	41	0.003	0.009
CO	Alamosa County	14,966	ND	ND	ND	ND	ND	IN	88	ND	ND	ND	ND
CO	Arapahoe County	487,967	ND	ND	ND	0.10	0.08	ND	ND	8.7	22	ND	ND
CO	Archuleta County	9,898	ND	ND	ND	ND	ND	28	87	IN	IN	ND	ND
CO	Boulder County	291,288	4	ND	ND	0.09	0.07	23	74	9.5	25	ND	ND
CO	Delta County	27,834	ND	ND	ND	ND	ND	24	62	IN	IN	ND	ND
CO	Denver County	554,636	5	0.02	IN	0.10	0.07	29	80	10.8	30	IN	0.017
CO	Douglas County	175,766	ND	ND	ND	0.10	0.08	15	31	IN	IN	ND	ND
CO	Eagle County	41,659	ND	ND	ND	ND	ND	IN	23	ND	ND	ND	ND
CO	Elbert County	19,872	ND	ND	ND	ND	ND	ND	ND	4.1	12	ND	ND
CO	El Paso County	516,929	4	0.01	0.035	0.09	0.07	25	87	7.5	16	0.004	0.014
CO	Fremont County	46,145	ND	ND	ND	ND	ND	17	36	ND	ND	ND	ND
CO	Garfield County	43,791	ND	ND	ND	ND	ND	23	53	ND	ND	ND	ND
CO	Gunnison County	13,956	ND	ND	ND	ND	ND	28	88	IN	IN	ND	ND
CO	Jefferson County	527,056	4	ND	0.011	0.11	0.08	16	32	ND	ND	ND	ND
CO	Lake County	7,812	ND	0.03	ND	ND	ND	ND	ND	ND	ND	ND	ND
CO	La Plata County	43,941	ND	ND	ND	ND	ND	36	121	IN	IN	ND	ND
CO	Larimer County	251,494	4	ND	ND	0.10	0.08	IN	66	8.3	20	ND	ND
CO	Mesa County	116,255	4	ND	ND	ND	ND	20	53	7.4	26	ND	ND
CO	Montezuma County	23,830	ND	ND	ND	0.09	0.07	ND	ND	ND	ND	ND	ND
CO	Montrose County	33,432	ND	ND	ND	ND	ND	IN	87	ND	ND	ND	ND
CO	Pitkin County	14,872	ND	ND	ND	ND	ND	22	71	ND	ND	ND	ND
CO	Powers County	14,483	ND	ND	ND	ND	ND	22	136	ND	ND	ND	ND
CO	Pueblo County	141,472	ND	ND	ND	ND	ND	24	64	7.9	22	ND	ND
CO	Routt County	19,690	ND	ND	ND	ND	ND	25	96	IN	IN	ND	ND
CO	San Miguel County	6,594	ND	ND	ND	ND	ND	IN	62	IN	IN	ND	ND
CO	Summit County	23,548	ND	ND	ND	ND	ND	22	71	ND	ND	ND	ND
CO	Teller County	20,555	ND	ND	ND	ND	ND	27	113	ND	ND	ND	ND
CO	Weld County	180,936	4	ND	ND	0.09	0.07	21	58	8.9	28	ND	ND
CT	Fairfield County	882,567	3	ND	0.018	0.12	0.09	31	67	IN	IN	0.006	0.026
CT	Hartford County	857,183	7	ND	0.017	0.10	0.08	18	39	IN	IN	0.004	0.021
CT	Litchfield County	182,193	ND	ND	ND	0.11	0.09	15	31	ND	ND	ND	ND
CT	Middlesex County	155,071	ND	ND	ND	0.12	0.09	ND	ND	ND	ND	ND	ND
CT	New Haven County	824,008	3	0.02	0.025	0.14	0.09	32	86	16.2	40	0.006	0.031
CT	New London County	259,088	ND	ND	ND	0.14	0.08	16	40	IN	IN	ND	ND
CT	Tolland County	136,364	ND	ND	IN	0.10	0.08	ND	ND	ND	ND	ND	ND
DE	Kent County	126,697	ND	ND	ND	0.13	0.09	ND	ND	12.9	23	ND	ND
DE	New Castle County	500,265	3	ND	IN	0.12	0.10	26	46	16.8	29	0.007	0.047
DE	Sussex County	156,638	ND	ND	ND	0.11	0.10	ND	ND	14.6	28	ND	ND
DC	District of Columbia	572,059	5	0.00	0.023	0.12	0.09	ND	ND	18.9	50	0.008	0.023
FL	Alachua County	217,955	ND	ND	ND	0.10	0.08	20	36	11.9	27	ND	ND
FL	Baker County	22,259	ND	ND	ND	0.09	0.08	ND	ND	ND	ND	ND	ND
FL	Bay County	148,217	ND	ND	ND	0.12	0.09	25	46	ND	ND	ND	ND
FL	Brevard County	476,230	ND	ND	ND	0.09	0.08	IN	34	IN	IN	ND	ND
FL	Broward County	1,623,018	4	0.05	0.010	0.09	0.07	19	31	9.6	36	0.003	0.026
FL	Citrus County	118,085	ND	ND	ND	ND	ND	ND	ND	10.5	31	ND	ND
FL	Collier County	251,377	ND	ND	ND	ND	ND	IN	IN	ND	ND	ND	ND
FL	Duval County	778,879	4	0.03	0.015	0.11	0.08	26	46	IN	IN	0.003	0.055
FL	Escambia County	294,410	ND	ND	0.010	0.12	0.10	22	38	13.9	32	0.005	0.032
FL	Hamilton County	13,327	ND	ND	ND	ND	ND	24	46	ND	ND	0.004	0.013
FL	Hillsborough County	998,948	3	2.01	0.011	0.11	0.08	33	73	13.5	33	0.006	0.025
FL	Holmes County	18,564	ND	ND	ND	0.10	0.08	ND	ND	ND	ND	ND	ND
FL	Lake County	210,528	ND	ND	ND	IN	IN	20	53	ND	ND	ND	ND

**Table A-14.** Maximum Air Quality Concentrations by County, 2000 (continued)

State	County	CO	Pb	NO <sub>2</sub>	O <sub>3</sub>	O <sub>3</sub>	PM <sub>10</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	SO <sub>2</sub>	
		2000	8-hr	QMax	AM	1-hr	8-hr	Wtd AM	24-hr	Wtd AM	24-hr	AM	24-hr
		Population	(ppm)	(µg/m <sup>3</sup> )	(ppm)	(ppm)	(ppm)	(µg/m <sup>3</sup> )	(µg/m <sup>3</sup> )	(µg/m <sup>3</sup> )	(ppm)	(ppm)	
FL	Lee County	440,888	ND	ND	ND	0.09	0.08	19	43	9.6	25	ND	ND
FL	Leon County	239,452	ND	ND	ND	0.09	0.08	18	46	IN	IN	ND	ND
FL	Manatee County	264,002	ND	ND	0.009	0.11	<b>0.09</b>	23	40	IN	IN	0.002	0.014
FL	Marion County	258,916	ND	ND	ND	0.09	0.08	ND	ND	11.0	24	ND	ND
FL	Monroe County	79,589	ND	ND	ND	ND	ND	18	36	ND	ND	ND	ND
FL	Nassau County	57,663	ND	ND	ND	ND	ND	IN	65	ND	ND	0.007	0.053
FL	Orange County	896,344	3	ND	0.012	0.11	0.08	26	50	12.1	31	0.003	0.009
FL	Osceola County	172,493	ND	ND	ND	0.10	0.08	ND	ND	ND	ND	ND	ND
FL	Palm Beach County	1,131,184	3	ND	0.016	0.09	0.08	IN	38	9.4	27	0.002	0.008
FL	Pasco County	344,765	ND	ND	ND	0.09	0.08	ND	ND	ND	ND	ND	ND
FL	Pinellas County	921,482	2	0.01	0.013	0.10	0.08	26	45	12.4	43	0.005	0.031
FL	Polk County	483,924	ND	ND	ND	0.10	0.08	23	121	12.2	28	0.005	0.018
FL	Putnam County	70,423	ND	ND	ND	ND	ND	27	49	ND	ND	0.003	0.014
FL	St. Lucie County	192,695	ND	ND	0.010	0.08	0.07	18	35	10.1	23	ND	ND
FL	Santa Rosa County	117,743	ND	ND	ND	0.11	<b>0.10</b>	ND	ND	ND	ND	ND	ND
FL	Sarasota County	325,957	4	ND	0.004	0.11	<b>0.09</b>	26	48	11.0	30	0.002	0.019
FL	Seminole County	365,196	ND	ND	ND	0.10	0.08	IN	32	11.0	27	ND	ND
FL	Volusia County	443,343	ND	ND	ND	0.09	0.08	21	53	10.5	26	ND	ND
GA	Baldwin County	44,700	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.003	0.016
GA	Bartow County	76,019	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.003	0.016
GA	Bibb County	153,887	ND	ND	ND	<b>0.13</b>	<b>0.10</b>	IN	48	<b>18.6</b>	37	0.003	0.015
GA	Chatham County	232,048	ND	ND	ND	0.10	0.08	26	66	<b>15.1</b>	IN	0.003	0.024
GA	Chattooga County	25,470	ND	ND	ND	ND	ND	IN	IN	ND	ND	ND	ND
GA	Cherokee County	141,903	ND	ND	ND	0.08	0.07	ND	ND	ND	ND	ND	ND
GA	Clarke County	101,489	ND	ND	ND	ND	ND	ND	ND	<b>19.0</b>	IN	ND	ND
GA	Clayton County	236,517	ND	ND	ND	ND	ND	ND	ND	<b>19.2</b>	IN	ND	ND
GA	Cobb County	607,751	ND	ND	ND	0.12	<b>0.11</b>	ND	ND	<b>18.7</b>	50	ND	ND
GA	Coweta County	89,215	ND	ND	ND	0.11	<b>0.10</b>	ND	ND	ND	ND	ND	ND
GA	Dawson County	15,999	ND	ND	ND	0.10	0.08	ND	ND	ND	ND	ND	ND
GA	DeKalb County	665,865	3	0.04	0.018	<b>0.15</b>	<b>0.11</b>	IN	64	<b>18.9</b>	IN	ND	ND
GA	Dougherty County	96,065	ND	ND	ND	ND	ND	IN	IN	<b>17.4</b>	IN	ND	ND
GA	Douglas County	92,174	ND	ND	ND	0.12	<b>0.10</b>	28	56	ND	ND	ND	ND
GA	Fannin County	19,798	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.003	0.018
GA	Fayette County	91,263	ND	ND	ND	<b>0.15</b>	<b>0.10</b>	ND	ND	ND	ND	ND	ND
GA	Floyd County	90,565	ND	ND	ND	ND	ND	24	50	<b>18.4</b>	IN	0.003	0.013
GA	Fulton County	816,006	3	ND	0.023	<b>0.16</b>	<b>0.11</b>	36	85	<b>21.4</b>	IN	0.005	0.019
GA	Glynn County	67,568	ND	ND	ND	0.09	0.07	IN	41	IN	IN	ND	ND
GA	Gwinnett County	588,448	ND	ND	ND	<b>0.13</b>	<b>0.10</b>	ND	ND	<b>19.4</b>	IN	ND	ND
GA	Hall County	139,277	ND	ND	ND	ND	ND	ND	ND	<b>18.3</b>	IN	ND	ND
GA	Henry County	119,341	ND	ND	ND	<b>0.16</b>	<b>0.11</b>	ND	ND	ND	ND	ND	ND
GA	Houston County	110,765	ND	ND	ND	ND	ND	ND	ND	IN	IN	ND	ND
GA	Lowndes County	92,115	ND	ND	ND	ND	ND	ND	ND	<b>15.6</b>	IN	ND	ND
GA	Murray County	36,506	ND	ND	ND	0.11	<b>0.09</b>	ND	ND	ND	ND	ND	ND
GA	Muscogee County	186,291	ND	0.11	ND	0.11	<b>0.09</b>	IN	59	<b>19.2</b>	<b>71</b>	ND	ND
GA	Paulding County	81,678	ND	ND	0.005	0.10	<b>0.09</b>	ND	ND	<b>16.9</b>	46	ND	ND
GA	Richmond County	199,775	ND	ND	ND	0.12	<b>0.09</b>	IN	48	<b>17.5</b>	IN	ND	ND
GA	Rockdale County	70,111	ND	ND	0.008	<b>0.13</b>	<b>0.10</b>	ND	ND	ND	ND	ND	ND
GA	Spalding County	58,417	ND	ND	ND	ND	ND	26	56	ND	ND	ND	ND
GA	Sumter County	33,200	ND	ND	ND	0.11	<b>0.09</b>	ND	ND	ND	ND	ND	ND
GA	Walker County	61,053	ND	ND	ND	ND	ND	IN	IN	IN	IN	ND	ND
GA	Washington County	21,176	ND	ND	ND	ND	ND	IN	54	IN	IN	ND	ND
GA	Wilkinson County	10,220	ND	ND	ND	ND	ND	ND	ND	<b>17.6</b>	IN	ND	ND
HI	Hawaii County	148,677	ND	ND	ND	0.05	0.04	ND	ND	ND	ND	ND	ND
HI	Honolulu County	876,156	2	ND	0.005	0.05	0.04	16	52	4.9	10	0.002	0.007
HI	Kauai County	58,463	ND	ND	ND	ND	ND	IN	IN	ND	ND	ND	ND
HI	Maui County	128,094	ND	ND	ND	ND	ND	24	76	IN	IN	ND	ND

**Table A-14.** Maximum Air Quality Concentrations by County, 2000 (continued)

State	County	CO	Pb	NO <sub>2</sub>	O <sub>3</sub>	O <sub>3</sub>	PM <sub>10</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	SO <sub>2</sub>	
		2000	8-hr	QMax	AM	1-hr	8-hr	Wtd AM	24-hr	Wtd AM	24-hr	AM	24-hr
		Population	(ppm)	(µg/m <sup>3</sup> )	(ppm)	(ppm)	(ppm)	(µg/m <sup>3</sup> )	(µg/m <sup>3</sup> )	(µg/m <sup>3</sup> )	(ppm)	(ppm)	
ID	Ada County	300,904	3	ND	IN	ND	ND	34	88	9.2	38	ND	ND
ID	Bannock County	75,565	ND	ND	ND	ND	ND	31	94	10.5	57	0.008	0.036
ID	Benewah County	9,171	ND	ND	ND	ND	ND	IN	63	ND	ND	ND	ND
ID	Bingham County	41,735	ND	ND	ND	ND	ND	IN	IN	ND	ND	ND	ND
ID	Bonner County	36,835	ND	ND	ND	ND	ND	22	56	9.8	37	ND	ND
ID	Bonneville County	82,522	ND	ND	ND	ND	ND	21	54	IN	IN	ND	ND
ID	Boundary County	9,871	ND	ND	ND	ND	ND	IN	42	ND	ND	ND	ND
ID	Butte County	2,899	ND	ND	ND	0.07	0.07	ND	ND	ND	ND	ND	ND
ID	Canyon County	131,441	5	ND	ND	ND	ND	30	82	9.7	38	ND	ND
ID	Caribou County	7,304	ND	ND	ND	ND	ND	IN	IN	ND	ND	0.004	0.034
ID	Kootenai County	108,685	ND	ND	ND	ND	ND	21	70	9.9	33	ND	ND
ID	Lemhi County	7,806	ND	ND	ND	ND	ND	44	255	ND	ND	ND	ND
ID	Lewis County	3,747	ND	ND	ND	ND	ND	31	58	ND	ND	ND	ND
ID	Minidoka County	20,174	ND	ND	ND	ND	ND	25	58	ND	ND	ND	ND
ID	Nez Perce County	37,410	3	ND	ND	ND	ND	23	53	10.1	30	ND	ND
ID	Power County	7,538	ND	ND	ND	ND	ND	IN	221	ND	ND	ND	ND
ID	Shoshone County	13,771	ND	0.08	ND	ND	ND	21	64	12.2	30	ND	ND
ID	Twin Falls County	64,284	ND	ND	ND	ND	ND	25	47	3.2	19	ND	ND
IL	Adams County	68,277	ND	ND	ND	0.08	0.07	ND	ND	13.1	30	0.004	0.025
IL	Champaign County	179,669	ND	ND	ND	0.08	0.07	ND	ND	14.8	28	0.002	0.016
IL	Cook County	5,376,741	4	0.15	0.032	0.10	0.08	35	123	<b>20.2</b>	43	0.012	0.075
IL	DuPage County	904,161	ND	ND	ND	0.08	0.06	ND	ND	<b>15.3</b>	34	0.003	0.018
IL	Effingham County	34,264	ND	ND	ND	0.09	0.07	ND	ND	ND	ND	ND	ND
IL	Hamilton County	8,621	ND	ND	ND	0.10	0.08	ND	ND	ND	ND	ND	ND
IL	Jackson County	59,612	ND	ND	ND	ND	ND	23	55	ND	ND	ND	ND
IL	Jersey County	21,668	ND	ND	ND	0.10	0.08	ND	ND	ND	ND	ND	ND
IL	Kane County	404,119	ND	ND	ND	0.08	0.07	IN	IN	IN	IN	ND	ND
IL	Lake County	644,356	ND	ND	IN	0.09	0.07	ND	ND	12.2	31	ND	ND
IL	La Salle County	111,509	ND	ND	ND	ND	ND	26	135	<b>15.2</b>	35	ND	ND
IL	McHenry County	260,077	ND	ND	ND	0.09	0.08	ND	ND	14.7	35	ND	ND
IL	McLean County	150,433	ND	ND	ND	ND	ND	ND	ND	14.9	33	ND	ND
IL	Macon County	114,706	ND	ND	ND	0.09	0.08	ND	ND	15.0	31	0.005	0.025
IL	Macoupin County	49,019	ND	0.01	ND	0.10	0.08	23	40	IN	IN	0.003	0.012
IL	Madison County	258,941	2	<b>1.76</b>	ND	0.11	0.08	45	116	<b>20.6</b>	37	0.008	0.041
IL	Peoria County	183,433	3	0.02	ND	0.08	0.07	24	54	14.8	32	0.006	0.036
IL	Randolph County	33,893	ND	ND	ND	0.09	0.08	ND	ND	<b>15.2</b>	33	0.003	0.017
IL	Rock Island County	149,374	ND	ND	ND	0.07	0.06	ND	ND	13.6	28	0.003	0.012
IL	St. Clair County	256,082	ND	0.07	0.018	0.11	0.08	32	62	<b>17.4</b>	36	0.007	0.030
IL	Sangamon County	188,951	2	ND	ND	0.10	0.08	26	54	13.4	32	0.005	0.035
IL	Tazewell County	128,485	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	0.063
IL	Wabash County	12,937	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.006	0.035
IL	Will County	502,266	1	ND	0.009	0.09	0.08	IN	59	<b>16.0</b>	31	0.005	0.023
IL	Winnebago County	278,418	3	ND	ND	0.08	0.07	ND	ND	15.0	36	ND	ND
IN	Allen County	331,849	4	ND	ND	0.10	<b>0.09</b>	IN	43	<b>15.7</b>	47	ND	ND
IN	Bartholomew County	71,435	ND	ND	ND	ND	ND	IN	70	ND	ND	ND	ND
IN	Boone County	46,107	ND	ND	ND	0.10	0.08	ND	ND	ND	ND	ND	ND
IN	Clark County	96,472	ND	ND	ND	0.10	<b>0.09</b>	28	65	<b>18.6</b>	IN	ND	ND
IN	Daviess County	29,820	ND	ND	ND	ND	ND	23	60	ND	ND	0.006	0.015
IN	Dearborn County	46,109	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.009	0.053
IN	DeKalb County	40,285	ND	ND	ND	ND	ND	24	60	ND	ND	ND	ND
IN	Delaware County	118,769	ND	0.58	ND	ND	ND	ND	ND	<b>16.1</b>	49	ND	ND
IN	Dubois County	39,674	ND	ND	ND	ND	ND	26	62	<b>17.1</b>	48	ND	ND
IN	Elkhart County	182,791	ND	ND	ND	0.08	0.06	ND	ND	<b>15.7</b>	IN	ND	ND
IN	Floyd County	70,823	ND	ND	ND	0.09	0.08	ND	ND	<b>16.0</b>	IN	0.015	0.037
IN	Fountain County	17,954	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.007	0.031
IN	Gibson County	32,500	ND	ND	0.010	0.08	0.07	ND	ND	ND	ND	0.006	0.070

**Table A-14.** Maximum Air Quality Concentrations by County, 2000 (continued)

State	County	CO	Pb	NO <sub>2</sub>	O <sub>3</sub>	O <sub>3</sub>	PM <sub>10</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	SO <sub>2</sub>	
		2000	8-hr	QMax	AM	1-hr	8-hr	Wtd AM	24-hr	Wtd AM	24-hr	AM	24-hr
		Population	(ppm)	(µg/m <sup>3</sup> )	(ppm)	(ppm)	(ppm)	(µg/m <sup>3</sup> )	(µg/m <sup>3</sup> )	(µg/m <sup>3</sup> )	(ppm)	(ppm)	
IN	Greene County	33,157	ND	ND	ND	0.10	0.09	ND	ND	ND	ND	ND	ND
IN	Hamilton County	182,740	ND	ND	ND	0.10	0.09	ND	ND	ND	ND	ND	ND
IN	Hancock County	55,391	ND	ND	ND	0.10	0.09	ND	ND	ND	ND	ND	ND
IN	Hendricks County	104,093	2	ND	IN	0.10	0.09	IN	67	ND	ND	IN	0.108
IN	Henry County	48,508	ND	ND	ND	ND	ND	ND	ND	IN	IN	ND	ND
IN	Howard County	84,964	ND	ND	ND	ND	ND	ND	ND	15.6	35	ND	ND
IN	Huntington County	38,075	ND	ND	ND	0.09	0.09	ND	ND	ND	ND	ND	ND
IN	Jackson County	41,335	ND	ND	ND	0.10	0.08	ND	ND	ND	ND	ND	ND
IN	Jasper County	30,043	ND	ND	ND	ND	ND	18	34	ND	ND	0.003	0.014
IN	Jefferson County	31,705	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.007	0.027
IN	Johnson County	115,209	ND	ND	ND	0.10	0.08	ND	ND	ND	ND	ND	ND
IN	Knox County	39,256	ND	ND	ND	ND	ND	ND	ND	IN	IN	ND	ND
IN	Lake County	484,564	3	0.11	0.020	0.10	0.09	31	123	17.1	38	0.006	0.046
IN	LaPorte County	110,106	ND	ND	ND	0.10	0.08	ND	ND	IN	IN	0.004	0.016
IN	Madison County	133,358	ND	ND	ND	0.09	0.08	21	40	16.9	IN	ND	ND
IN	Marion County	860,454	4	0.12	0.017	0.10	0.08	27	55	17.8	36	0.007	0.025
IN	Morgan County	66,689	ND	ND	ND	0.10	0.09	ND	ND	ND	ND	ND	ND
IN	Perry County	18,899	ND	ND	ND	0.10	0.09	30	75	ND	ND	0.007	0.030
IN	Pike County	12,837	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.008	0.029
IN	Porter County	146,798	ND	ND	ND	0.10	0.09	18	54	13.4	30	0.006	0.027
IN	Posey County	27,061	ND	ND	ND	0.10	0.09	ND	ND	ND	ND	ND	ND
IN	Putnam County	36,019	ND	ND	ND	ND	ND	25	57	ND	ND	ND	ND
IN	St. Joseph County	265,559	ND	ND	0.016	0.10	0.08	19	35	13.7	36	ND	ND
IN	Shelby County	43,445	ND	ND	ND	0.10	0.09	ND	ND	ND	ND	ND	ND
IN	Spencer County	20,391	ND	ND	0.007	ND	ND	25	51	IN	IN	0.008	0.028
IN	Sullivan County	21,751	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.008	0.040
IN	Tiptpecanoe County	148,955	ND	ND	ND	ND	ND	ND	ND	15.6	35	ND	ND
IN	Vanderburgh County	171,922	3	ND	0.014	0.09	0.08	28	68	16.1	39	0.004	0.020
IN	Vigo County	105,848	ND	ND	ND	0.09	0.08	25	54	15.7	37	0.012	0.055
IN	Warrick County	52,383	ND	ND	ND	0.09	0.08	ND	ND	ND	ND	0.015	0.084
IN	Wayne County	71,097	ND	ND	ND	ND	ND	24	47	ND	ND	0.006	0.031
IA	Black Hawk County	128,012	ND	ND	ND	ND	ND	31	71	11.6	29	ND	ND
IA	Bremer County	23,325	ND	ND	ND	0.09	0.08	ND	ND	ND	ND	ND	ND
IA	Cerro Gordo County	46,447	ND	ND	ND	ND	ND	35	138	10.6	28	0.003	0.053
IA	Clinton County	50,149	ND	ND	ND	0.09	0.08	24	70	12.0	29	0.005	0.028
IA	Delaware County	18,404	ND	ND	ND	ND	ND	IN	46	ND	ND	ND	ND
IA	Emmet County	11,027	ND	ND	ND	ND	ND	17	39	IN	IN	ND	ND
IA	Harrison County	15,666	ND	ND	ND	0.09	0.08	ND	ND	ND	ND	ND	ND
IA	Johnson County	111,006	ND	ND	ND	ND	ND	ND	ND	10.9	28	ND	ND
IA	Lee County	38,052	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.002	0.011
IA	Linn County	191,701	2	ND	0.005	0.08	0.08	IN	60	10.7	29	0.003	0.037
IA	Muscatine County	41,722	ND	ND	ND	ND	ND	25	119	IN	IN	0.009	0.084
IA	Palo Alto County	10,147	ND	ND	ND	0.08	0.07	IN	IN	ND	ND	ND	ND
IA	Polk County	374,601	5	ND	ND	0.07	0.06	31	134	10.8	28	ND	ND
IA	Pottawattamie County	87,704	ND	ND	ND	ND	ND	23	39	9.9	27	ND	ND
IA	Scott County	158,668	ND	ND	IN	0.09	0.08	41	141	12.7	30	0.003	0.014
IA	Story County	79,981	ND	ND	ND	0.08	0.07	ND	ND	9.8	27	ND	ND
IA	Van Buren County	7,809	ND	ND	ND	0.08	0.07	ND	ND	9.7	27	0.001	0.005
IA	Warren County	40,671	ND	ND	ND	0.08	0.07	ND	ND	ND	ND	ND	ND
IA	Woodbury County	103,877	ND	ND	ND	ND	ND	25	76	9.5	31	ND	ND
KS	Ford County	32,458	ND	ND	ND	ND	ND	22	49	ND	ND	ND	ND
KS	Johnson County	451,086	ND	ND	ND	ND	ND	ND	ND	11.2	26	ND	ND
KS	Linn County	9,570	2	ND	0.004	0.11	0.08	ND	ND	11.3	29	0.001	0.004
KS	Montgomery County	36,252	ND	ND	ND	ND	ND	24	75	ND	ND	0.006	0.044
KS	Neosho County	16,997	ND	ND	ND	ND	ND	26	63	ND	ND	ND	ND
KS	Sedgwick County	452,869	6	ND	ND	0.09	0.08	26	87	12.7	29	ND	ND

**Table A-14.** Maximum Air Quality Concentrations by County, 2000 (continued)

State	County	CO	Pb	NO <sub>2</sub>	O <sub>3</sub>	O <sub>3</sub>	PM <sub>10</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	SO <sub>2</sub>	
		2000	8-hr	QMax	AM	1-hr	8-hr	Wtd AM	24-hr	Wtd AM	24-hr	AM	24-hr
		Population	(ppm)	(µg/m <sup>3</sup> )	(ppm)	(ppm)	(ppm)	(µg/m <sup>3</sup> )	(µg/m <sup>3</sup> )	(µg/m <sup>3</sup> )	(ppm)	(ppm)	
KS	Shawnee County	169,871	ND	ND	ND	ND	20	49	10.8	23	ND	ND	
KS	Sherman County	6,760	ND	ND	ND	ND	25	60	ND	ND	ND	ND	
KS	Sumner County	25,946	2	ND	IN	0.09	0.08	ND	ND	10.6	23	0.001	0.002
KS	Trego County	3,319	ND	ND	ND	0.09	0.08	ND	ND	ND	ND	ND	ND
KS	Wyandotte County	157,882	5	ND	0.017	0.11	0.09	37	64	13.3	32	0.002	0.012
KY	Bell County	30,060	3	ND	ND	0.11	0.09	IN	54	IN	IN	ND	ND
KY	Boone County	85,991	ND	ND	ND	0.11	0.08	ND	ND	ND	ND	ND	ND
KY	Boyd County	49,752	1	ND	0.015	0.09	0.08	32	80	IN	IN	0.007	0.020
KY	Bullitt County	61,236	ND	ND	0.013	0.10	0.08	IN	68	IN	IN	ND	ND
KY	Campbell County	88,616	ND	ND	0.015	0.11	0.09	IN	IN	IN	IN	0.007	0.040
KY	Carter County	26,889	ND	ND	ND	0.09	0.08	ND	ND	IN	IN	ND	ND
KY	Christian County	72,265	ND	ND	ND	0.10	0.08	ND	ND	IN	IN	ND	ND
KY	Daviess County	91,545	1	ND	0.011	0.08	0.07	20	64	IN	IN	0.005	0.018
KY	Edmonson County	11,644	ND	ND	ND	0.10	0.09	ND	ND	ND	ND	ND	ND
KY	Fayette County	260,512	2	ND	0.013	0.09	0.08	21	49	IN	IN	0.005	0.020
KY	Franklin County	47,687	ND	ND	ND	ND	ND	ND	ND	IN	IN	ND	ND
KY	Graves County	37,028	ND	ND	ND	0.10	0.08	ND	ND	ND	ND	ND	ND
KY	Greenup County	36,891	ND	ND	ND	0.09	0.08	ND	ND	ND	ND	0.007	0.024
KY	Hancock County	8,392	ND	ND	ND	0.09	0.08	ND	ND	ND	ND	0.005	0.018
KY	Hardin County	94,174	ND	ND	ND	0.09	0.08	IN	IN	IN	IN	ND	ND
KY	Harlan County	33,202	ND	ND	ND	ND	ND	24	48	ND	ND	ND	ND
KY	Henderson County	44,829	2	ND	0.016	0.09	0.08	IN	48	IN	IN	0.006	0.034
KY	Jefferson County	693,604	4	ND	0.013	0.11	0.09	31	84	17.9	IN	0.008	0.036
KY	Jessamine County	39,041	ND	ND	ND	0.08	0.08	ND	ND	ND	ND	ND	ND
KY	Kenton County	151,464	2	ND	0.018	0.11	0.09	19	50	IN	IN	ND	ND
KY	Livingston County	9,804	ND	ND	ND	0.10	0.08	IN	IN	ND	ND	0.005	0.017
KY	McCracken County	65,514	3	ND	0.010	0.10	0.08	21	74	IN	IN	0.002	0.014
KY	McLean County	9,938	ND	ND	ND	0.09	0.08	ND	ND	ND	ND	ND	ND
KY	Madison County	70,872	ND	ND	ND	ND	ND	IN	43	IN	IN	ND	ND
KY	Marshall County	30,125	ND	ND	ND	ND	ND	IN	IN	ND	ND	ND	ND
KY	Oldham County	46,178	ND	ND	ND	0.11	0.09	ND	ND	ND	ND	ND	ND
KY	Perry County	29,390	ND	ND	ND	0.09	0.07	IN	IN	IN	IN	ND	ND
KY	Pike County	68,736	ND	ND	ND	0.09	0.08	IN	43	IN	IN	ND	ND
KY	Pulaski County	56,217	ND	ND	ND	0.10	0.09	25	50	ND	ND	ND	ND
KY	Scott County	33,061	ND	ND	ND	0.08	0.07	ND	ND	ND	ND	ND	ND
KY	Simpson County	16,405	ND	ND	ND	0.10	0.09	ND	ND	ND	ND	ND	ND
KY	Trigg County	12,597	ND	ND	ND	0.09	0.08	ND	ND	ND	ND	ND	ND
KY	Warren County	92,522	ND	ND	0.010	0.10	0.09	19	47	IN	IN	ND	ND
KY	Whitley County	35,865	ND	ND	ND	ND	ND	25	57	ND	ND	ND	ND
LA	Ascension Parish	76,627	ND	ND	ND	0.13	0.10	ND	ND	ND	ND	ND	ND
LA	Beauregard Parish	32,986	ND	ND	IN	0.13	0.08	ND	ND	ND	ND	ND	ND
LA	Bossier Parish	98,310	ND	ND	0.13	0.09	ND	ND	ND	ND	ND	0.002	0.006
LA	Caddo Parish	252,161	ND	ND	ND	0.11	0.09	24	51	13.8	31	ND	ND
LA	Calcasieu Parish	183,577	ND	ND	0.005	0.13	0.09	ND	ND	13.1	34	0.004	0.013
LA	Concordia Parish	20,247	ND	ND	ND	ND	ND	ND	ND	12.3	27	ND	ND
LA	East Baton Rouge Parish	412,852	4	ND	0.017	0.14	0.10	IN	53	15.0	35	0.004	0.015
LA	Grant Parish	18,698	ND	ND	ND	0.10	0.08	ND	ND	ND	ND	ND	ND
LA	Iberia Parish	33,320	ND	ND	0.010	0.13	0.10	ND	ND	IN	IN	ND	ND
LA	Jefferson Parish	455,466	ND	ND	0.011	0.12	0.10	ND	ND	13.5	35	ND	ND
LA	Lafayette Parish	190,503	ND	ND	ND	0.12	0.09	ND	ND	13.0	33	ND	ND
LA	Lafourche Parish	89,974	ND	ND	ND	0.12	0.09	ND	ND	ND	ND	ND	ND
LA	Livingston Parish	91,814	ND	ND	0.005	0.13	0.10	ND	ND	ND	ND	ND	ND
LA	Orleans Parish	484,674	4	ND	0.019	0.11	0.08	IN	44	14.1	37	ND	ND
LA	Ouachita Parish	147,250	ND	ND	ND	0.10	0.08	ND	ND	13.3	27	0.002	0.003
LA	Pointe Coupee Parish	22,763	ND	ND	IN	0.11	0.08	ND	ND	ND	ND	ND	ND
LA	Rapides Parish	126,337	ND	ND	ND	ND	ND	ND	ND	13.3	30	ND	ND
LA	St. Bernard Parish	67,229	ND	ND	ND	0.11	0.09	ND	ND	13.1	35	0.005	0.020

**Table A-14.** Maximum Air Quality Concentrations by County, 2000 (continued)

State	County	CO	Pb	NO <sub>2</sub>	O <sub>3</sub>	O <sub>3</sub>	PM <sub>10</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	SO <sub>2</sub>	
		2000	8-hr	QMax	AM	1-hr	8-hr	Wtd AM	24-hr	Wtd AM	24-hr	AM	24-hr
		Population	(ppm)	(µg/m <sup>3</sup> )	(ppm)	(ppm)	(ppm)	(µg/m <sup>3</sup> )	(µg/m <sup>3</sup> )	(µg/m <sup>3</sup> )	(ppm)	(ppm)	
LA	St. Charles Parish	48,072	ND	ND	ND	0.12	<b>0.09</b>	IN	57	ND	ND	ND	ND
LA	St. James Parish	21,216	ND	ND	IN	0.12	<b>0.09</b>	ND	ND	ND	ND	ND	ND
LA	St. John the Baptist Parish	43,044	ND	0.12	ND	0.12	<b>0.09</b>	ND	ND	ND	ND	ND	ND
LA	St. Mary Parish	53,500	ND	ND	ND	0.12	<b>0.09</b>	ND	ND	ND	ND	ND	ND
LA	Tangipahoa Parish	100,588	ND	ND	ND	ND	ND	ND	ND	14.0	35	ND	ND
LA	Terrebonne Parish	104,503	ND	ND	ND	ND	ND	ND	ND	12.4	29	ND	ND
LA	West Baton Rouge Parish	21,601	ND	ND	0.017	0.12	<b>0.09</b>	IN	68	14.2	36	0.006	0.031
ME	Androscoggin County	103,793	ND	ND	ND	ND	ND	IN	36	9.6	26	0.004	0.018
ME	Aroostook County	73,938	ND	ND	ND	ND	ND	24	87	10.4	24	ND	ND
ME	Cumberland County	265,612	ND	ND	ND	0.08	0.07	27	74	11.0	35	0.005	0.018
ME	Franklin County	29,467	ND	ND	ND	ND	ND	IN	29	ND	ND	ND	ND
ME	Hancock County	51,791	ND	ND	IN	0.10	0.08	ND	ND	5.6	14	ND	ND
ME	Kennebec County	117,114	ND	ND	ND	0.08	0.06	IN	IN	9.6	31	ND	ND
ME	Knox County	39,618	ND	ND	ND	0.09	0.07	IN	32	IN	IN	ND	ND
ME	Oxford County	54,755	ND	ND	ND	0.06	0.05	IN	31	IN	IN	0.003	0.013
ME	Penobscot County	144,919	ND	ND	ND	IN	IN	17	37	9.0	24	ND	ND
ME	Piscataquis County	17,235	ND	ND	ND	0.07	0.06	ND	ND	ND	ND	ND	ND
ME	Sagadahoc County	35,214	ND	ND	ND	0.09	0.08	ND	ND	ND	ND	ND	ND
ME	York County	186,742	ND	ND	0.010	0.09	0.07	ND	ND	9.4	24	ND	ND
MD	Anne Arundel County	489,656	ND	ND	IN	0.12	<b>0.10</b>	25	48	<b>16.1</b>	IN	0.006	0.024
MD	Baltimore County	754,292	ND	ND	0.017	0.11	0.08	15	33	IN	IN	ND	ND
MD	Calvert County	74,563	ND	ND	ND	0.11	<b>0.09</b>	ND	ND	ND	ND	ND	ND
MD	Carroll County	150,897	ND	ND	ND	0.11	<b>0.09</b>	ND	ND	ND	ND	ND	ND
MD	Cecil County	85,951	ND	ND	ND	<b>0.13</b>	0.11	IN	27	14.1	25	ND	ND
MD	Charles County	120,546	ND	ND	ND	0.11	<b>0.09</b>	ND	ND	ND	ND	ND	ND
MD	Frederick County	195,277	ND	ND	ND	0.11	<b>0.09</b>	ND	ND	ND	ND	ND	ND
MD	Harford County	218,590	ND	ND	IN	0.11	<b>0.09</b>	ND	ND	<b>15.5</b>	IN	ND	ND
MD	Kent County	19,197	ND	ND	ND	<b>0.13</b>	<b>0.11</b>	ND	ND	ND	ND	ND	ND
MD	Montgomery County	873,341	ND	ND	ND	0.09	0.08	ND	ND	14.3	25	ND	ND
MD	Prince George's County	801,515	ND	ND	ND	<b>0.13</b>	<b>0.09</b>	24	56	<b>17.1</b>	IN	ND	ND
MD	Washington County	131,923	ND	ND	ND	0.10	0.08	ND	ND	<b>15.6</b>	29	ND	ND
MD	Wicomico County	84,644	ND	ND	ND	ND	ND	13	29	ND	ND	ND	ND
MD	Baltimore city	651,154	3	0.01	0.024	ND	ND	29	75	<b>19.7</b>	IN	ND	ND
MA	Barnstable County	222,230	ND	ND	IN	0.11	0.08	ND	ND	ND	ND	ND	ND
MA	Berkshire County	134,953	ND	ND	ND	IN	IN	ND	ND	IN	IN	ND	ND
MA	Bristol County	534,678	ND	ND	0.007	0.10	0.08	ND	ND	11.7	29	0.005	0.042
MA	Essex County	723,419	ND	ND	0.011	0.09	0.07	ND	ND	IN	IN	0.004	0.020
MA	Hampden County	456,228	4	ND	0.026	0.10	0.08	28	57	<b>15.9</b>	37	0.005	0.023
MA	Hampshire County	152,251	ND	ND	0.006	0.10	0.08	11	25	IN	IN	0.002	0.015
MA	Middlesex County	1,465,396	3	ND	ND	0.09	0.08	ND	ND	IN	IN	IN	0.034
MA	Norfolk County	650,308	ND	ND	ND	ND	ND	ND	ND	IN	IN	ND	ND
MA	Plymouth County	472,822	ND	ND	ND	ND	ND	ND	ND	IN	IN	ND	ND
MA	Suffolk County	689,807	2	0.02	0.029	0.09	0.07	29	59	<b>15.8</b>	IN	0.006	0.035
MA	Worcester County	750,963	3	ND	0.018	0.10	0.08	19	54	12.1	33	0.006	0.019
MI	Allegan County	105,665	ND	ND	ND	0.12	0.08	ND	ND	11.7	32	ND	ND
MI	Alpena County	31,314	ND	ND	ND	ND	ND	ND	ND	IN	IN	ND	ND
MI	Bay County	110,157	ND	ND	ND	ND	ND	ND	ND	IN	IN	ND	ND
MI	Benzie County	15,998	ND	ND	ND	0.09	0.08	ND	ND	ND	ND	ND	ND
MI	Berrien County	162,453	ND	ND	ND	0.11	0.08	ND	ND	12.1	30	ND	ND
MI	Calhoun County	137,985	ND	ND	ND	ND	ND	IN	IN	ND	ND	ND	ND
MI	Cass County	51,104	ND	ND	ND	0.10	0.08	ND	ND	ND	ND	ND	ND
MI	Clinton County	64,753	ND	ND	ND	0.09	0.07	ND	ND	ND	ND	ND	ND
MI	Delta County	38,520	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.002	0.010
MI	Genesee County	436,141	ND	0.01	ND	0.09	0.07	19	36	12.9	32	0.004	0.015
MI	Grand Traverse County	77,654	ND	ND	ND	ND	ND	ND	ND	IN	IN	ND	ND
MI	Huron County	36,079	ND	ND	ND	0.09	0.07	ND	ND	ND	ND	ND	ND

**Table A-14.** Maximum Air Quality Concentrations by County, 2000 (continued)

State	County	CO	Pb	NO <sub>2</sub>	O <sub>3</sub>	O <sub>3</sub>	PM <sub>10</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	SO <sub>2</sub>	
		2000	8-hr	QMax	AM	1-hr	8-hr	Wtd AM	24-hr	Wtd AM	24-hr	AM	24-hr
		Population	(ppm)	(µg/m <sup>3</sup> )	(ppm)	(ppm)	(ppm)	(µg/m <sup>3</sup> )	(µg/m <sup>3</sup> )	(µg/m <sup>3</sup> )	(ppm)	(ppm)	
MI	Ingham County	279,320	ND	ND	IN	0.09	0.08	ND	ND	13.6	38	ND	ND
MI	Kalamazoo County	238,603	ND	ND	ND	0.09	0.07	ND	ND	15.1	37	ND	ND
MI	Kent County	574,335	3	0.00	ND	0.11	0.07	21	49	13.8	35	0.002	0.010
MI	Lenawee County	98,890	ND	ND	ND	0.09	0.08	ND	ND	ND	ND	ND	ND
MI	Macomb County	788,149	1	ND	ND	0.09	0.08	ND	ND	13.4	33	0.003	0.014
MI	Mason County	28,274	ND	ND	ND	0.12	0.08	ND	ND	ND	ND	ND	ND
MI	Missaukee County	14,478	ND	0.00	0.004	0.08	0.07	ND	ND	ND	ND	ND	ND
MI	Monroe County	145,945	ND	ND	ND	ND	ND	ND	ND	15.2	37	ND	ND
MI	Muskegon County	170,200	ND	ND	ND	0.12	0.08	ND	ND	11.9	35	ND	ND
MI	Oakland County	1,194,156	3	ND	ND	0.09	0.08	ND	ND	15.4	IN	ND	ND
MI	Ottawa County	238,314	ND	ND	ND	0.11	0.08	IN	40	13.2	34	ND	ND
MI	Saginaw County	210,039	ND	ND	ND	ND	ND	ND	ND	IN	IN	ND	ND
MI	St. Clair County	164,235	ND	ND	ND	0.10	0.08	ND	ND	IN	IN	0.006	0.039
MI	Washtenaw County	322,895	ND	0.00	ND	0.09	0.08	ND	ND	IN	IN	ND	ND
MI	Wayne County	2,061,162	5	0.04	0.024	0.10	0.08	43	113	20.1	45	0.008	0.043
MN	Anoka County	298,084	2	ND	ND	0.09	0.07	ND	ND	ND	ND	ND	ND
MN	Crow Wing County	55,099	ND	ND	ND	ND	ND	IN	IN	IN	IN	ND	ND
MN	Dakota County	355,904	2	0.40	0.012	0.08	0.07	IN	IN	IN	IN	0.003	0.016
MN	Douglas County	32,821	ND	ND	ND	ND	ND	IN	IN	IN	IN	ND	ND
MN	Freeborn County	32,584	ND	ND	ND	ND	ND	IN	IN	IN	IN	ND	ND
MN	Hennepin County	1,116,200	3	0.01	0.022	ND	ND	31	103	IN	IN	0.003	0.023
MN	Itasca County	43,992	ND	ND	ND	ND	ND	IN	IN	IN	IN	ND	ND
MN	Kandiyohi County	41,203	ND	ND	ND	ND	ND	IN	IN	IN	IN	ND	ND
MN	Koochiching County	14,355	ND	ND	ND	ND	ND	ND	ND	ND	ND	IN	0.001
MN	Lake County	11,058	ND	ND	ND	0.07	0.06	IN	IN	IN	IN	ND	ND
MN	McLeod County	34,898	ND	ND	ND	ND	ND	IN	IN	IN	IN	ND	ND
MN	Mille Lacs County	22,330	ND	ND	ND	0.07	0.07	12	26	IN	IN	ND	ND
MN	Nicollet County	29,771	ND	ND	ND	ND	ND	IN	IN	IN	IN	ND	ND
MN	Olmsted County	124,277	ND	ND	ND	ND	ND	ND	ND	IN	IN	ND	ND
MN	Otter Tail County	57,159	ND	ND	ND	ND	ND	IN	IN	IN	IN	ND	ND
MN	Pine County	26,530	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MN	Ramsey County	511,035	5	ND	0.017	ND	ND	36	74	IN	IN	0.002	0.009
MN	St. Louis County	200,528	2	ND	ND	0.07	0.07	29	69	IN	IN	ND	ND
MN	Scott County	89,498	ND	ND	ND	ND	ND	ND	ND	IN	IN	ND	ND
MN	Stearns County	133,166	3	ND	ND	ND	ND	ND	ND	IN	IN	ND	ND
MN	Washington County	201,130	ND	ND	ND	0.09	0.07	21	42	IN	IN	0.002	0.011
MN	Wright County	89,986	ND	ND	ND	ND	ND	IN	IN	IN	IN	ND	ND
MS	Adams County	34,340	ND	ND	ND	0.10	0.09	ND	ND	IN	IN	ND	ND
MS	Bolivar County	40,633	ND	ND	ND	0.09	0.08	ND	ND	IN	IN	ND	ND
MS	DeSoto County	107,199	ND	ND	0.010	0.12	0.09	ND	ND	IN	IN	ND	ND
MS	Forrest County	72,604	ND	ND	ND	ND	ND	ND	ND	IN	IN	ND	ND
MS	Hancock County	42,967	ND	ND	0.005	0.14	0.09	ND	ND	IN	IN	ND	ND
MS	Harrison County	189,601	ND	ND	ND	0.12	0.09	ND	ND	IN	IN	0.003	0.033
MS	Hinds County	250,800	3	ND	ND	0.10	0.08	24	64	15.6	35	0.002	0.006
MS	Jackson County	131,420	ND	ND	ND	0.11	0.09	16	35	IN	IN	0.002	0.010
MS	Jones County	64,958	ND	ND	ND	ND	ND	ND	ND	IN	IN	ND	ND
MS	Lauderdale County	78,161	ND	ND	ND	0.10	0.08	ND	ND	IN	IN	ND	ND
MS	Lee County	75,755	ND	ND	ND	0.10	0.08	17	34	IN	IN	ND	ND
MS	Lowndes County	61,586	ND	ND	ND	ND	ND	ND	ND	IN	IN	ND	ND
MS	Madison County	74,674	ND	ND	ND	0.09	0.08	ND	ND	ND	ND	ND	ND
MS	Pearl River County	48,621	ND	ND	ND	ND	ND	ND	ND	IN	IN	ND	ND
MS	Rankin County	115,327	ND	ND	ND	ND	ND	ND	ND	IN	IN	ND	ND
MS	Scott County	28,423	ND	ND	ND	ND	ND	ND	ND	IN	IN	ND	ND
MS	Warren County	49,644	ND	ND	ND	0.10	0.08	ND	ND	IN	IN	ND	ND
MO	Buchanan County	85,998	ND	ND	ND	ND	ND	31	80	11.8	27	IN	0.021
MO	Cass County	82,092	ND	ND	ND	0.12	0.08	ND	ND	10.9	25	ND	ND

**Table A-14.** Maximum Air Quality Concentrations by County, 2000 (continued)

State	County	CO	Pb	NO <sub>2</sub>	O <sub>3</sub>	O <sub>3</sub>	PM <sub>10</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	SO <sub>2</sub>	
		2000	8-hr	QMax	AM	1-hr	8-hr	Wtd AM	24-hr	Wtd AM	24-hr	AM	24-hr
		Population	(ppm)	(µg/m <sup>3</sup> )	(ppm)	(ppm)	(ppm)	(µg/m <sup>3</sup> )	(µg/m <sup>3</sup> )	(µg/m <sup>3</sup> )	(ppm)	(ppm)	
MO	Cedar County	13,733	ND	ND	IN	0.11	0.09	ND	ND	IN	IN	ND	ND
MO	Clay County	184,006	4	ND	0.014	0.12	<b>0.09</b>	ND	ND	13.1	29	0.002	0.007
MO	Greene County	240,391	3	ND	0.012	0.09	0.08	18	35	12.3	27	0.005	0.077
MO	Holt County	5,351	ND	0.00	ND	ND	ND	ND	ND	ND	ND	ND	ND
MO	Howell County	37,238	ND	ND	ND	ND	ND	ND	ND	13.4	28	ND	ND
MO	Iron County	10,697	ND	1.00	ND	ND	ND	ND	ND	ND	ND	0.008	0.099
MO	Jackson County	654,880	5	0.01	ND	ND	ND	29	56	13.4	30	0.004	0.039
MO	Jasper County	104,686	ND	ND	ND	ND	ND	IN	126	13.2	26	ND	ND
MO	Jefferson County	198,099	ND	<b>6.86</b>	ND	0.10	0.08	ND	ND	IN	IN	0.005	0.042
MO	Lincoln County	38,944	ND	ND	ND	ND	ND	17	51	ND	ND	ND	ND
MO	Mercer County	3,757	ND	ND	0.004	ND	ND	ND	ND	ND	ND	ND	ND
MO	Monroe County	9,311	ND	ND	ND	0.09	0.08	12	37	10.9	30	0.003	0.013
MO	Platte County	73,781	ND	ND	0.009	0.12	<b>0.09</b>	ND	ND	ND	ND	0.002	0.008
MO	St. Charles County	283,883	ND	ND	0.009	0.12	<b>0.09</b>	ND	ND	14.9	34	0.004	0.017
MO	Ste. Genevieve County	17,842	ND	ND	IN	0.12	<b>0.09</b>	ND	ND	<b>15.1</b>	33	ND	ND
MO	St. Louis County	1,016,315	3	0.01	0.021	0.12	<b>0.09</b>	19	50	14.8	33	0.005	0.026
MO	St. Louis city	348,189	4	ND	0.026	0.11	<b>0.09</b>	39	92	<b>16.4</b>	43	0.007	0.043
MT	Big Horn County	12,671	ND	ND	ND	ND	ND	IN	106*	ND	ND	ND	ND
MT	Cascade County	80,357	4	ND	ND	ND	ND	ND	ND	IN	IN	IN	0.008
MT	Flathead County	74,471	4	ND	ND	IN	IN	24	98	IN	IN	ND	ND
MT	Gallatin County	67,831	5	ND	ND	ND	ND	IN	65	IN	IN	ND	ND
MT	Glacier County	13,247	ND	ND	ND	ND	ND	20	101	ND	ND	ND	ND
MT	Jefferson County	10,049	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	0.035
MT	Lake County	26,507	ND	ND	ND	ND	ND	21	86	12.1	33	ND	ND
MT	Lewis and Clark County	55,716	ND	0.98	ND	ND	ND	20	58	IN	IN	0.006	0.028
MT	Lincoln County	18,837	ND	ND	ND	ND	ND	26	69	<b>17.1</b>	IN	ND	ND
MT	Missoula County	95,802	3	ND	ND	ND	ND	18	58	IN	IN	ND	ND
MT	Park County	15,694	ND	ND	ND	ND	ND	IN	17*	ND	ND	ND	ND
MT	Ravalli County	36,070	ND	ND	ND	ND	ND	19	60	IN	IN	ND	ND
MT	Roosevelt County	10,620	ND	ND	ND	ND	ND	IN	IN	ND	ND	ND	ND
MT	Rosebud County	9,383	ND	ND	IN	ND	ND	29	124	IN	IN	IN	0.002
MT	Sanders County	10,227	ND	ND	ND	ND	ND	IN	41	6.9	18	ND	ND
MT	Silver Bow County	34,606	5	ND	ND	ND	ND	20	66	IN	IN	ND	ND
MT	Yellowstone County	129,352	5	ND	ND	ND	ND	18	43	8.1	25	0.006	0.026
NE	Cass County	24,334	ND	ND	ND	ND	ND	IN	118	IN	IN	ND	ND
NE	Cedar County	9,615	ND	ND	ND	ND	ND	ND	ND	IN	IN	ND	ND
NE	Cherry County	6,148	ND	ND	ND	ND	ND	ND	ND	IN	IN	ND	ND
NE	Dawson County	24,365	ND	ND	ND	ND	ND	IN	125	ND	ND	ND	ND
NE	Deuel County	2,098	ND	ND	ND	ND	ND	ND	ND	IN	IN	ND	ND
NE	Douglas County	463,585	3	0.08	ND	0.08	0.07	48	124	11.5	28	0.001	0.016
NE	Hall County	53,534	ND	ND	ND	ND	ND	ND	ND	IN	IN	ND	ND
NE	Lancaster County	250,291	3	ND	ND	0.07	0.06	ND	ND	IN	IN	ND	ND
NE	Lincoln County	34,632	ND	ND	ND	ND	ND	ND	ND	IN	IN	ND	ND
NE	Sarpy County	122,595	ND	ND	ND	ND	ND	ND	ND	IN	IN	ND	ND
NE	Scotts Bluff County	36,951	ND	ND	ND	ND	ND	ND	ND	IN	IN	ND	ND
NE	Washington County	18,780	ND	ND	ND	ND	ND	ND	ND	IN	IN	ND	ND
NV	Clark County	1,375,765	7	ND	ND	0.09	0.08	48	188	10.8	32	ND	ND
NV	Douglas County	41,259	4	ND	ND	0.09	0.07	9	19	IN	IN	ND	ND
NV	Elko County	45,291	ND	ND	ND	ND	ND	IN	91	ND	ND	ND	ND
NV	Lander County	5,794	ND	ND	ND	ND	ND	22	91	ND	ND	ND	ND
NV	Washoe County	339,486	5	ND	0.008	0.09	0.07	42	96	9.0	31	ND	ND
NV	White Pine County	9,181	ND	ND	ND	0.08	0.08	ND	ND	ND	ND	ND	ND
NV	Carson City	52,457	4	ND	ND	0.08	0.07	ND	ND	ND	ND	ND	ND
NH	Carroll County	43,666	ND	ND	ND	0.07	0.06	ND	ND	ND	ND	ND	ND
NH	Cheshire County	73,825	ND	ND	ND	0.08	0.06	19	41	IN	IN	0.006	0.022
NH	Coos County	33,111	ND	ND	ND	IN	IN	28	72	ND	ND	0.005	0.030

**Table A-14.** Maximum Air Quality Concentrations by County, 2000 (continued)

State	County	CO	Pb	NO <sub>2</sub>	O <sub>3</sub>	O <sub>3</sub>	PM <sub>10</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	SO <sub>2</sub>	
		2000	8-hr	QMax	AM	1-hr	8-hr	Wtd AM	24-hr	Wtd AM	24-hr	AM	24-hr
		Population	(ppm)	(µg/m <sup>3</sup> )	(ppm)	(ppm)	(ppm)	(µg/m <sup>3</sup> )	(µg/m <sup>3</sup> )	(µg/m <sup>3</sup> )	(ppm)	(ppm)	
NH	Grafton County	81,743	ND	ND	ND	0.08	0.06	ND	ND	ND	ND	ND	ND
NH	Hillsborough County	380,841	4	ND	0.011	0.09	0.07	15	39	IN	IN	0.005	0.022
NH	Merrimack County	136,225	ND	ND	ND	0.08	0.07	IN	26	ND	ND	0.005	0.044
NH	Rockingham County	277,359	ND	ND	0.006	0.08	0.07	IN	33	IN	IN	0.003	0.013
NH	Strafford County	112,233	ND	ND	ND	0.08	0.07	13	29	ND	ND	ND	ND
NH	Sullivan County	40,458	ND	ND	ND	0.08	0.07	IN	24	ND	ND	0.004	0.015
NJ	Atlantic County	252,552	ND	ND	ND	0.11	<b>0.09</b>	23	42	ND	ND	0.003	0.013
NJ	Bergen County	884,118	3	ND	ND	0.10	0.08	37	86	14.6	36	0.005	0.020
NJ	Burlington County	423,394	4	ND	ND	ND	ND	ND	ND	ND	ND	0.004	0.016
NJ	Camden County	508,932	4	0.01	0.021	<b>0.13</b>	<b>0.10</b>	29	76	<b>15.5</b>	IN	0.006	0.020
NJ	Cumberland County	146,438	ND	ND	ND	0.12	<b>0.09</b>	ND	ND	ND	ND	0.004	0.017
NJ	Essex County	793,633	ND	ND	0.029	ND	ND	ND	ND	<b>15.6</b>	IN	ND	ND
NJ	Gloucester County	254,673	ND	ND	ND	0.12	<b>0.10</b>	ND	ND	<b>15.1</b>	34	0.005	0.021
NJ	Hudson County	608,975	5	ND	0.026	0.10	0.08	IN	63	<b>17.5</b>	<b>69</b>	0.008	0.025
NJ	Hunterdon County	121,989	ND	ND	ND	0.11	<b>0.09</b>	ND	ND	ND	ND	ND	ND
NJ	Mercer County	350,761	ND	ND	0.016	0.11	<b>0.10</b>	26	55	14.7	43	ND	ND
NJ	Middlesex County	750,162	3	0.15	0.019	0.11	<b>0.09</b>	ND	ND	IN	IN	0.005	0.018
NJ	Monmouth County	615,301	3	ND	ND	<b>0.13</b>	<b>0.10</b>	ND	ND	ND	ND	ND	ND
NJ	Morris County	470,212	3	ND	0.011	0.11	<b>0.09</b>	ND	ND	12.9	30	0.004	0.021
NJ	Ocean County	510,916	ND	ND	ND	<b>0.14</b>	<b>0.11</b>	ND	ND	IN	IN	ND	ND
NJ	Passaic County	489,049	ND	ND	ND	0.10	0.08	ND	ND	IN	IN	ND	ND
NJ	Union County	522,541	5	ND	0.041	ND	ND	35	108	<b>18.7</b>	47	0.009	0.025
NJ	Warren County	102,437	ND	ND	ND	ND	ND	ND	ND	13.9	38	ND	ND
NM	Bernalillo County	556,678	4	ND	0.017	0.09	0.08	25	122	7.9	19	ND	ND
NM	Chaves County	61,382	ND	ND	ND	ND	ND	20	41	6.8	15	ND	ND
NM	Dona Ana County	174,682	4	ND	0.012	0.12	0.08	42	96	10.5	31	0.001	0.003
NM	Eddy County	51,658	ND	ND	0.006	0.08	0.07	ND	ND	ND	ND	0.001	0.007
NM	Grant County	31,002	ND	ND	ND	ND	ND	20	43	5.5	11	0.004	0.024
NM	Hidalgo County	5,932	ND	ND	ND	ND	ND	IN	38	ND	ND	0.001	0.002
NM	Lea County	55,511	ND	ND	ND	ND	ND	21	40	6.8	14	ND	ND
NM	Luna County	25,016	ND	ND	ND	ND	ND	IN	35	ND	ND	ND	ND
NM	Otero County	62,298	ND	ND	ND	ND	ND	20	57	ND	ND	ND	ND
NM	Sandoval County	89,908	1	ND	0.010	0.09	0.08	17	36	6.3	10	ND	ND
NM	San Juan County	113,801	2	ND	0.011	0.09	0.08	16	27	6.1	13	0.008	0.032
NM	Santa Fe County	129,292	2	ND	ND	ND	ND	11	28	5.2	10	ND	ND
NM	Taos County	29,979	ND	ND	ND	ND	ND	10	36	ND	ND	ND	ND
NM	Valencia County	66,152	ND	ND	ND	0.08	0.07	ND	ND	ND	ND	ND	ND
NY	Albany County	294,565	1	ND	ND	0.08	0.07	ND	ND	12.3	30	0.004	0.020
NY	Bronx County	1,332,650	4	ND	0.032	0.10	0.07	23	57	<b>16.6</b>	44	0.011	0.042
NY	Broome County	200,536	ND	ND	ND	ND	ND	ND	ND	IN	IN	ND	ND
NY	Chautauqua County	139,750	ND	ND	ND	0.11	<b>0.09</b>	14	32	IN	IN	0.008	0.065
NY	Chemung County	91,070	ND	ND	ND	0.09	0.07	ND	ND	ND	ND	0.003	0.012
NY	Columbia County	63,094	ND	ND	ND	ND	ND	IN	29	ND	ND	ND	ND
NY	Dutchess County	280,150	ND	ND	ND	0.11	0.08	ND	ND	11.3	33	ND	ND
NY	Erie County	950,265	2	ND	0.022	0.11	<b>0.09</b>	ND	ND	<b>16.1</b>	33	0.010	0.051
NY	Essex County	38,851	ND	ND	ND	0.09	0.08	IN	21	5.5	18	0.002	0.006
NY	Hamilton County	5,379	ND	ND	ND	0.09	0.07	ND	ND	ND	ND	0.002	0.008
NY	Herkimer County	64,427	ND	ND	ND	0.08	0.07	9	23	ND	ND	0.001	0.007
NY	Jefferson County	111,738	ND	ND	ND	0.08	0.07	ND	ND	ND	ND	ND	ND
NY	Kings County	2,465,326	4	ND	ND	ND	ND	IN	IN	<b>16.2</b>	44	IN	0.000
NY	Madison County	69,441	ND	ND	ND	0.08	0.07	ND	ND	ND	ND	0.002	0.012
NY	Monroe County	735,343	3	ND	ND	0.08	0.07	ND	ND	11.8	28	0.006	0.021
NY	Nassau County	1,334,544	3	ND	0.024	ND	ND	17	38	12.2	36	0.006	0.025
NY	New York County	1,537,195	4	ND	0.038	0.07	0.06	22	49	<b>18.4</b>	48	0.013	0.046
NY	Niagara County	219,846	2	0.02	ND	0.10	0.08	IN	31	IN	IN	0.005	0.017
NY	Oneida County	235,469	ND	ND	ND	0.08	0.07	ND	ND	11.8	34	ND	ND

**Table A-14.** Maximum Air Quality Concentrations by County, 2000 (continued)

State	County	CO	Pb	NO <sub>2</sub>	O <sub>3</sub>	O <sub>3</sub>	PM <sub>10</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	SO <sub>2</sub>	
		2000	8-hr	QMax	AM	1-hr	8-hr	Wtd AM	24-hr	Wtd AM	24-hr	AM	24-hr
		Population	(ppm)	(µg/m <sup>3</sup> )	(ppm)	(ppm)	(ppm)	(µg/m <sup>3</sup> )	(µg/m <sup>3</sup> )	(µg/m <sup>3</sup> )	(ppm)	(ppm)	
NY	Onondaga County	458,336	2	ND	ND	0.08	0.07	ND	ND	IN	IN	0.003	0.022
NY	Orange County	341,367	ND	0.18	ND	0.10	0.08	ND	ND	IN	IN	ND	ND
NY	Putnam County	95,745	ND	ND	ND	0.10	0.08	ND	ND	ND	ND	0.003	0.015
NY	Queens County	2,229,379	3	ND	0.030	0.11	0.08	ND	ND	14.1	43	0.007	0.025
NY	Rensselaer County	152,538	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.002	0.010
NY	Richmond County	443,728	ND	0.02	ND	0.12	<b>0.09</b>	IN	46	14.3	42	IN	0.028
NY	St. Lawrence County	111,931	ND	ND	ND	ND	ND	ND	ND	7.3	22	ND	ND
NY	Saratoga County	200,635	ND	ND	ND	0.09	0.07	ND	ND	ND	ND	ND	ND
NY	Schenectady County	146,555	3	ND	ND	0.08	0.06	ND	ND	10.8	26	0.004	0.016
NY	Steuben County	98,726	ND	ND	ND	ND	ND	ND	ND	9.1	31	ND	ND
NY	Suffolk County	1,419,369	3	ND	0.017	<b>0.13</b>	<b>0.09</b>	ND	ND	IN	IN	0.007	0.023
NY	Ulster County	177,749	ND	ND	ND	0.09	0.08	10	29	ND	ND	0.002	0.009
NY	Wayne County	93,765	ND	ND	ND	0.09	0.07	ND	ND	ND	ND	ND	ND
NY	Westchester County	923,459	ND	ND	ND	0.11	0.08	ND	ND	IN	IN	ND	ND
NC	Alamance County	130,800	ND	ND	ND	ND	ND	ND	ND	<b>15.4</b>	IN	ND	ND
NC	Alexander County	33,603	ND	ND	ND	0.11	<b>0.09</b>	ND	ND	ND	ND	ND	ND
NC	Avery County	17,167	ND	ND	ND	0.09	0.08	ND	ND	ND	ND	ND	ND
NC	Beaufort County	44,958	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.004	0.020
NC	Buncombe County	206,330	ND	ND	ND	0.11	<b>0.09</b>	18	38	<b>15.1</b>	IN	ND	ND
NC	Cabarrus County	131,063	ND	ND	ND	ND	ND	21	40	<b>16.5</b>	IN	ND	ND
NC	Caldwell County	77,415	ND	ND	ND	0.10	<b>0.09</b>	ND	ND	ND	ND	ND	ND
NC	Camden County	6,885	ND	ND	ND	0.08	0.07	ND	ND	ND	ND	ND	ND
NC	Caswell County	23,501	ND	ND	ND	0.12	<b>0.09</b>	ND	ND	14.9	46	ND	ND
NC	Catawba County	141,685	ND	ND	ND	ND	ND	22	42	<b>17.4</b>	38	ND	ND
NC	Chatham County	49,329	ND	ND	ND	0.10	0.08	ND	ND	13.3	32	ND	ND
NC	Cumberland County	302,963	4	ND	ND	0.11	<b>0.09</b>	IN	52	<b>16.2</b>	<b>67</b>	ND	ND
NC	Davidson County	147,246	ND	ND	ND	ND	ND	21	41	<b>17.8</b>	38	ND	ND
NC	Davie County	34,835	ND	ND	ND	0.11	<b>0.10</b>	ND	ND	ND	ND	0.004	0.018
NC	Duplin County	49,063	ND	ND	ND	0.10	0.08	ND	ND	13.1	32	ND	ND
NC	Durham County	223,314	1	ND	ND	0.12	<b>0.09</b>	23	43	<b>15.8</b>	40	ND	ND
NC	Edgecombe County	55,606	ND	ND	ND	0.11	<b>0.09</b>	20	41	14.7	35	ND	ND
NC	Forsyth County	306,067	4	ND	0.018	0.11	<b>0.09</b>	22	51	<b>16.5</b>	35	0.005	0.019
NC	Franklin County	47,260	ND	ND	ND	0.11	<b>0.09</b>	ND	ND	ND	ND	ND	ND
NC	Gaston County	190,365	ND	ND	ND	ND	ND	21	37	<b>16.0</b>	37	ND	ND
NC	Granville County	48,498	1	ND	ND	0.11	<b>0.09</b>	ND	ND	ND	ND	ND	ND
NC	Guilford County	421,048	3	ND	ND	0.12	<b>0.09</b>	24	44	<b>16.8</b>	37	ND	ND
NC	Harnett County	91,025	ND	ND	ND	ND	ND	28	52	ND	ND	ND	ND
NC	Haywood County	54,033	ND	ND	ND	0.10	<b>0.09</b>	26	47	14.8	33	ND	ND
NC	Henderson County	89,173	ND	ND	ND	ND	ND	23	44	ND	ND	ND	ND
NC	Jackson County	33,121	ND	ND	ND	0.10	<b>0.09</b>	ND	ND	IN	IN	ND	ND
NC	Johnston County	121,965	ND	ND	ND	0.12	0.08	ND	ND	ND	ND	ND	ND
NC	Lenoir County	59,648	ND	ND	ND	0.10	0.08	ND	ND	12.7	32	ND	ND
NC	Lincoln County	63,780	ND	ND	ND	0.11	<b>0.09</b>	ND	ND	ND	ND	0.004	0.018
NC	McDowell County	42,151	ND	ND	ND	ND	ND	22	45	<b>16.4</b>	39	ND	ND
NC	Martin County	25,593	ND	ND	ND	0.10	0.08	ND	ND	ND	ND	ND	ND
NC	Mecklenburg County	695,454	5	ND	0.018	<b>0.14</b>	<b>0.10</b>	31	62	<b>17.2</b>	34	0.004	0.017
NC	Mitchell County	15,687	ND	ND	ND	ND	ND	27	50	<b>16.3</b>	37	ND	ND
NC	Montgomery County	26,822	ND	ND	ND	ND	ND	ND	ND	IN	IN	ND	ND
NC	New Hanover County	160,307	4	ND	ND	0.10	0.08	17	36	12.5	32	0.006	0.030
NC	Northampton County	22,086	ND	ND	ND	0.10	0.08	ND	ND	ND	ND	0.004	0.012
NC	Onslow County	150,355	ND	ND	ND	ND	ND	17	32	12.3	34	ND	ND
NC	Orange County	118,227	IN	ND	ND	ND	ND	ND	ND	14.4	30	ND	ND
NC	Pasquotank County	34,897	ND	ND	ND	ND	ND	17	34	IN	IN	ND	ND
NC	Person County	35,623	ND	ND	ND	0.10	0.08	ND	ND	ND	ND	ND	ND
NC	Pitt County	133,798	ND	ND	ND	0.11	0.08	19	36	13.9	41	0.003	0.007
NC	Robeson County	123,339	ND	ND	ND	ND	ND	ND	ND	IN	IN	ND	ND

**Table A-14.** Maximum Air Quality Concentrations by County, 2000 (continued)

State	County	CO	Pb	NO <sub>2</sub>	O <sub>3</sub>	O <sub>3</sub>	PM <sub>10</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	SO <sub>2</sub>	
		2000	8-hr	QMax	AM	1-hr	8-hr	Wtd AM	24-hr	Wtd AM	24-hr	AM	24-hr
		Population	(ppm)	(µg/m <sup>3</sup> )	(ppm)	(ppm)	(ppm)	(µg/m <sup>3</sup> )	(µg/m <sup>3</sup> )	(µg/m <sup>3</sup> )	(ppm)	(ppm)	
NC	Rockingham County	91,928	ND	ND	ND	0.10	0.08	ND	ND	ND	ND	ND	ND
NC	Rowan County	130,340	1	ND	ND	0.12	<b>0.10</b>	ND	ND	ND	ND	ND	ND
NC	Swain County	12,968	ND	ND	ND	0.08	0.07	19	33	14.1	38	ND	ND
NC	Union County	123,677	ND	ND	ND	0.10	<b>0.09</b>	ND	ND	ND	ND	ND	ND
NC	Wake County	627,846	5	ND	ND	0.12	<b>0.09</b>	23	51	<b>16.5</b>	52	ND	ND
NC	Wayne County	113,329	ND	ND	ND	ND	ND	21	40	<b>15.8</b>	40	ND	ND
NC	Yancey County	17,774	ND	ND	ND	0.11	<b>0.09</b>	ND	ND	ND	ND	ND	ND
ND	Billings County	888	ND	ND	ND	0.07	0.06	ND	ND	IN	IN	0.001	0.004
ND	Burke County	2,242	ND	ND	0.003	ND	ND	IN	49	5.9	12	0.002	0.011
ND	Burleigh County	69,416	ND	ND	ND	ND	ND	ND	ND	6.6	14	ND	ND
ND	Cass County	123,138	ND	ND	0.007	0.07	0.06	17	39	8.2	29	0.001	0.003
ND	Dunn County	3,600	ND	ND	0.003	IN	IN	ND	ND	ND	ND	0.001	0.008
ND	Grand Forks County	66,109	ND	ND	ND	ND	ND	ND	ND	8.2	25	ND	ND
ND	McKenzie County	5,737	ND	ND	ND	ND	ND	6	17	ND	ND	0.002	0.011
ND	McLean County	9,311	ND	ND	ND	ND	ND	8	20	ND	ND	0.002	0.007
ND	Mercer County	8,644	ND	ND	0.004	0.06	0.05	ND	ND	6.2	12	0.003	0.016
ND	Morton County	25,303	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.006	0.053
ND	Oliver County	2,065	ND	ND	0.003	0.06	0.06	ND	ND	ND	ND	0.002	0.011
ND	Stark County	22,636	ND	ND	ND	ND	ND	ND	ND	5.4	10	ND	ND
ND	Steele County	2,258	ND	ND	0.003	0.07	0.06	ND	ND	6.8	21	0.001	0.002
ND	Williams County	19,761	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.003	0.020
OH	Adams County	27,330	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.007	0.029
OH	Allen County	108,473	ND	ND	ND	0.10	<b>0.09</b>	IN	42	ND	ND	0.003	0.015
OH	Ashtabula County	102,728	ND	ND	ND	0.11	0.08	ND	ND	ND	ND	0.005	0.021
OH	Athens County	62,223	ND	ND	ND	ND	ND	IN	39	IN	IN	ND	ND
OH	Belmont County	70,226	ND	ND	ND	ND	ND	28	62	ND	ND	0.010	0.043
OH	Butler County	332,807	ND	0.01	ND	0.10	0.08	32	69	<b>17.0</b>	38	0.006	0.023
OH	Clark County	144,742	ND	ND	ND	0.11	<b>0.09</b>	ND	ND	IN	IN	0.004	0.018
OH	Clermont County	177,977	ND	ND	ND	0.11	<b>0.09</b>	ND	ND	ND	ND	0.005	0.029
OH	Clinton County	40,543	ND	ND	ND	0.11	<b>0.10</b>	ND	ND	ND	ND	ND	ND
OH	Columbiana County	112,075	ND	ND	ND	ND	ND	IN	128	ND	ND	IN	0.037
OH	Cuyahoga County	1,393,978	8	0.20	0.023	0.10	0.08	43	122	<b>19.8</b>	46	0.007	0.035
OH	Delaware County	109,989	ND	ND	ND	0.10	0.08	ND	ND	ND	ND	ND	ND
OH	Franklin County	1,068,978	3	0.03	ND	0.11	0.08	34	73	<b>18.5</b>	IN	0.004	0.019
OH	Fulton County	42,084	ND	0.33	ND	ND	ND	ND	ND	ND	ND	ND	ND
OH	Geauga County	90,895	ND	ND	ND	0.11	<b>0.09</b>	ND	ND	ND	ND	ND	ND
OH	Greene County	147,886	ND	ND	ND	0.11	0.08	21	46	ND	ND	ND	ND
OH	Hamilton County	845,303	2	ND	0.022	0.11	<b>0.09</b>	32	70	<b>19.7</b>	44	0.007	0.031
OH	Hancock County	71,295	ND	ND	ND	ND	ND	IN	41	ND	ND	ND	ND
OH	Jefferson County	73,894	5	ND	ND	0.10	0.08	31	70	<b>19.1</b>	47	0.010	0.045
OH	Knox County	54,500	ND	ND	ND	0.10	<b>0.09</b>	ND	ND	ND	ND	ND	ND
OH	Lake County	227,511	1	ND	ND	0.11	0.08	21	46	13.8	40	0.009	0.040
OH	Lawrence County	62,319	ND	ND	ND	0.09	0.08	23	41	<b>17.0</b>	IN	0.005	0.025
OH	Licking County	145,491	ND	ND	ND	0.11	<b>0.09</b>	IN	IN	ND	ND	ND	ND
OH	Logan County	46,005	ND	0.24	ND	ND	ND	ND	ND	ND	ND	ND	ND
OH	Lorain County	284,664	ND	ND	IN	IN	IN	29	52	<b>15.1</b>	IN	0.003	0.021
OH	Lucas County	455,054	ND	ND	ND	0.10	0.08	23	60	IN	IN	0.005	0.017
OH	Madison County	40,213	ND	ND	ND	0.12	<b>0.09</b>	ND	ND	ND	ND	ND	ND
OH	Mahoning County	257,555	ND	ND	ND	0.10	0.08	27	55	<b>15.9</b>	35	0.007	0.024
OH	Medina County	151,095	ND	ND	ND	0.10	0.08	ND	ND	ND	ND	ND	ND
OH	Meigs County	23,072	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.006	0.034
OH	Miami County	98,868	ND	ND	ND	0.10	0.08	ND	ND	ND	ND	ND	ND
OH	Monroe County	15,180	ND	ND	ND	ND	ND	25	48	ND	ND	ND	ND
OH	Montgomery County	559,062	3	ND	ND	0.09	0.08	32	64	<b>18.0</b>	43	0.004	0.016
OH	Morgan County	14,897	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.006	0.040
OH	Ottawa County	40,985	ND	ND	ND	ND	ND	24	43	ND	ND	ND	ND

**Table A-14.** Maximum Air Quality Concentrations by County, 2000 (continued)

State	County	CO	Pb	NO <sub>2</sub>	O <sub>3</sub>	O <sub>3</sub>	PM <sub>10</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	SO <sub>2</sub>	
		2000	8-hr	QMax	AM	1-hr	8-hr	Wtd AM	24-hr	Wtd AM	24-hr	AM	24-hr
		Population	(ppm)	(µg/m <sup>3</sup> )	(ppm)	(ppm)	(ppm)	(µg/m <sup>3</sup> )	(µg/m <sup>3</sup> )	(µg/m <sup>3</sup> )	(ppm)	(ppm)	
OH	Portage County	152,061	ND	ND	ND	0.11	<b>0.09</b>	ND	ND	<b>15.6</b>	36	ND	ND
OH	Preble County	42,337	ND	ND	ND	0.09	0.07	ND	ND	IN	IN	ND	ND
OH	Richland County	128,852	ND	ND	ND	ND	ND	IN	53	ND	ND	ND	ND
OH	Sandusky County	61,792	ND	ND	ND	ND	ND	25	46	ND	ND	ND	ND
OH	Scioto County	79,195	ND	ND	ND	ND	ND	29	59	<b>15.6</b>	IN	0.007	0.024
OH	Seneca County	58,683	ND	ND	ND	ND	ND	22	100	ND	ND	ND	ND
OH	Stark County	378,098	3	ND	ND	0.10	<b>0.09</b>	24	49	<b>18.6</b>	40	0.008	0.028
OH	Summit County	542,899	3	ND	ND	0.11	0.08	22	53	<b>16.8</b>	36	0.009	0.044
OH	Trumbull County	225,116	ND	ND	ND	0.09	0.08	24	50	<b>15.5</b>	IN	ND	ND
OH	Tuscarawas County	90,914	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.006	0.031
OH	Warren County	158,383	ND	ND	ND	0.11	<b>0.09</b>	ND	ND	ND	ND	ND	ND
OH	Washington County	63,251	ND	ND	ND	0.10	0.08	IN	75	ND	ND	ND	ND
OH	Wood County	121,065	ND	ND	ND	0.09	0.08	ND	ND	ND	ND	ND	ND
OH	Wyandot County	22,908	ND	ND	ND	ND	ND	29	63	ND	ND	ND	ND
OK	Caddo County	30,150	ND	ND	ND	ND	ND	ND	ND	IN	IN	ND	ND
OK	Canadian County	87,697	ND	ND	ND	ND	ND	ND	ND	10.8	26	ND	ND
OK	Carter County	45,621	ND	ND	ND	ND	ND	ND	ND	10.2	24	ND	ND
OK	Cherokee County	42,521	1	ND	0.008	0.10	<b>0.09</b>	ND	ND	IN	IN	0.001	0.004
OK	Cleveland County	208,016	2	ND	0.011	0.09	0.08	ND	ND	ND	ND	ND	ND
OK	Comanche County	114,996	1	ND	ND	0.09	<b>0.09</b>	ND	ND	9.1	19	ND	ND
OK	Custer County	26,142	ND	ND	ND	ND	ND	23	50	9.7	30	ND	ND
OK	Garfield County	57,813	ND	ND	0.007	ND	ND	ND	ND	10.3	25	ND	ND
OK	Jefferson County	6,818	ND	ND	ND	0.10	<b>0.09</b>	ND	ND	ND	ND	ND	ND
OK	Kay County	48,080	1	ND	0.007	0.10	0.08	IN	48	10.3	23	0.005	0.020
OK	Latimer County	10,692	ND	ND	IN	0.08	0.06	ND	ND	ND	ND	ND	ND
OK	Lincoln County	32,080	ND	ND	ND	ND	ND	ND	ND	IN	IN	ND	ND
OK	Love County	8,831	ND	ND	ND	0.12	<b>0.10</b>	ND	ND	ND	ND	ND	ND
OK	McClain County	27,740	ND	ND	ND	0.10	0.08	ND	ND	ND	ND	ND	ND
OK	Marshall County	13,184	ND	ND	ND	0.10	<b>0.09</b>	ND	ND	ND	ND	ND	ND
OK	Ma County	38,369	ND	ND	0.007	ND	ND	ND	ND	11.1	30	ND	ND
OK	Muskogee County	69,451	ND	ND	0.008	ND	ND	IN	99	IN	IN	0.003	0.019
OK	Oklahoma County	660,448	4	ND	0.013	0.10	<b>0.09</b>	26	62	11.5	29	0.003	0.007
OK	Ottawa County	33,194	ND	ND	ND	ND	ND	ND	ND	IN	IN	ND	ND
OK	Pawnee County	16,612	ND	ND	ND	ND	ND	ND	ND	IN	IN	ND	ND
OK	Payne County	68,190	ND	ND	ND	ND	ND	ND	ND	IN	IN	ND	ND
OK	Pittsburg County	43,953	ND	ND	ND	ND	ND	IN	43	IN	IN	ND	ND
OK	Pottawatomie County	65,521	ND	ND	ND	ND	ND	ND	ND	10.8	24	ND	ND
OK	Seminole County	24,894	ND	ND	ND	ND	ND	ND	ND	IN	IN	ND	ND
OK	Tulsa County	563,299	4	ND	0.015	0.12	<b>0.09</b>	25	58	12.1	30	0.006	0.027
OR	Benton County	78,153	ND	ND	ND	ND	ND	ND	ND	8.1	30	ND	ND
OR	Clackamas County	338,391	ND	ND	ND	0.08	0.07	IN	IN	ND	ND	ND	ND
OR	Columbia County	43,560	ND	ND	ND	0.08	0.05	ND	ND	7.0	18	ND	ND
OR	Deschutes County	115,367	4	ND	ND	ND	ND	IN	109	7.3	27	ND	ND
OR	Harney County	7,609	ND	ND	ND	ND	ND	ND	ND	IN	IN	ND	ND
OR	Jackson County	181,269	5	ND	ND	0.08	0.07	IN	68	11.4	49	ND	ND
OR	Josephine County	75,726	ND	ND	ND	ND	ND	IN	40	8.9	33	ND	ND
OR	Klamath County	63,775	IN	ND	ND	ND	ND	IN	93	9.6	48	ND	ND
OR	Lake County	7,422	ND	ND	ND	ND	ND	IN	78	7.0	46	ND	ND
OR	Lane County	322,959	4	ND	ND	IN	IN	IN	69	IN	IN	ND	ND
OR	Linn County	103,069	ND	ND	ND	ND	ND	ND	ND	9.1	42	ND	ND
OR	Marion County	284,834	IN	ND	ND	0.07	0.06	ND	ND	8.9	31	ND	ND
OR	Multnomah County	660,486	4	ND	0.012	ND	ND	IN	45	9.6	31	ND	ND
OR	Umatilla County	70,548	ND	ND	ND	ND	ND	IN	45	8.9	37	ND	ND
OR	Union County	24,530	ND	ND	ND	ND	ND	IN	71	IN	IN	ND	ND
OR	Wasco County	23,791	ND	ND	ND	ND	ND	ND	ND	9.7	30	ND	ND
OR	Washington County	445,342	ND	ND	ND	ND	ND	ND	ND	9.9	34	ND	ND

**Table A-14.** Maximum Air Quality Concentrations by County, 2000 (continued)

State	County	CO	Pb	NO <sub>2</sub>	O <sub>3</sub>	O <sub>3</sub>	PM <sub>10</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	SO <sub>2</sub>	
		2000	8-hr	QMax	AM	1-hr	8-hr	Wtd AM	24-hr	Wtd AM	24-hr	AM	24-hr
		Population	(ppm)	(µg/m <sup>3</sup> )	(ppm)	(ppm)	(ppm)	(µg/m <sup>3</sup> )	(µg/m <sup>3</sup> )	(µg/m <sup>3</sup> )	(ppm)	(ppm)	
OR	Yamhill County	84,992	ND	0.11	ND	ND	ND	ND	ND	ND	ND	ND	ND
PA	Adams County	91,292	1	ND	0.004	ND	ND	ND	ND	IN	IN	ND	ND
PA	Allegheny County	1,281,666	3	0.03	0.025	0.11	<b>0.09</b>	39	124	<b>20.0</b>	<b>84</b>	0.011	0.054
PA	Armstrong County	72,392	ND	ND	ND	0.10	0.08	ND	ND	ND	ND	ND	ND
PA	Beaver County	181,412	1	0.07	0.017	0.10	0.08	IN	52	<b>16.3</b>	IN	0.013	0.086
PA	Berks County	373,638	2	0.33	0.020	0.11	0.08	IN	45	<b>16.9</b>	34	0.008	0.028
PA	Blair County	129,144	1	ND	0.014	0.10	0.08	IN	51	ND	ND	0.006	0.045
PA	Bucks County	597,635	4	ND	0.017	0.12	<b>0.10</b>	IN	39	IN	IN	0.007	0.027
PA	Cambria County	152,598	2	0.05	0.015	0.10	<b>0.09</b>	IN	51	<b>15.9</b>	IN	0.007	0.026
PA	Carbon County	58,802	ND	0.11	ND	ND	ND	ND	ND	ND	ND	ND	ND
PA	Centre County	135,758	ND	ND	ND	0.11	0.08	ND	ND	IN	IN	ND	ND
PA	Chester County	433,501	ND	ND	ND	IN	IN	ND	ND	ND	ND	ND	ND
PA	Clearfield County	83,382	ND	ND	ND	0.11	0.08	ND	ND	ND	ND	ND	ND
PA	Cumberland County	213,674	ND	ND	ND	ND	ND	ND	ND	IN	IN	ND	ND
PA	Dauphin County	251,798	2	ND	0.017	0.11	<b>0.09</b>	IN	53	<b>15.8</b>	IN	0.005	0.024
PA	Delaware County	550,864	ND	0.05	0.019	0.12	<b>0.09</b>	IN	45	<b>16.0</b>	30	0.010	0.026
PA	Erie County	280,843	6	ND	0.012	0.10	0.08	IN	41	IN	IN	0.008	0.041
PA	Franklin County	129,313	ND	ND	ND	0.10	<b>0.09</b>	ND	ND	ND	ND	ND	ND
PA	Greene County	40,672	0	ND	ND	0.11	<b>0.09</b>	ND	ND	ND	ND	0.007	0.022
PA	Lackawanna County	213,295	2	ND	0.015	0.09	0.08	IN	40	11.7	31	0.004	0.021
PA	Lancaster County	470,658	2	ND	0.014	0.11	<b>0.09</b>	IN	56	<b>18.4</b>	IN	0.005	0.024
PA	Lawrence County	94,643	2	ND	0.019	0.09	0.07	IN	62	ND	ND	0.008	0.031
PA	Lehigh County	312,090	3	ND	0.013	0.11	<b>0.09</b>	IN	79	14.5	37	0.007	0.027
PA	Luzerne County	319,250	2	ND	0.014	0.09	0.08	IN	46	12.7	33	0.006	0.026
PA	Lycoming County	120,044	ND	ND	ND	0.09	0.07	IN	IN	ND	ND	0.005	0.019
PA	Mercer County	120,293	ND	ND	ND	0.10	0.08	ND	ND	IN	IN	0.007	0.024
PA	Montgomery County	750,097	2	ND	0.018	<b>0.13</b>	<b>0.10</b>	IN	41	IN	IN	0.005	0.022
PA	Northampton County	267,066	2	ND	0.017	0.11	<b>0.09</b>	IN	85	IN	IN	0.008	0.023
PA	Perry County	43,602	ND	ND	0.007	0.10	0.07	ND	ND	12.2	23	0.003	0.015
PA	Philadelphia County	1,517,550	4	0.05	0.028	0.11	<b>0.09</b>	IN	IN	IN	IN	0.006	0.027
PA	Schuylkill County	150,336	1	ND	ND	ND	ND	ND	ND	ND	ND	0.006	0.025
PA	Tioga County	41,373	ND	ND	ND	0.10	0.08	ND	ND	ND	ND	ND	ND
PA	Warren County	43,863	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.013	0.092
PA	Washington County	202,897	1	ND	0.015	0.11	0.08	IN	78	<b>15.4</b>	30	0.009	0.031
PA	Westmoreland County	369,993	2	0.04	0.017	0.10	0.08	IN	45	<b>16.0</b>	IN	0.010	0.029
PA	York County	381,751	2	ND	0.018	0.11	<b>0.09</b>	IN	53	<b>16.6</b>	31	0.006	0.020
RI	Kent County	167,090	ND	ND	IN	0.12	<b>0.09</b>	12	26	8.8	26	ND	ND
RI	Providence County	621,602	4	ND	0.020	0.12	0.08	29	91	14.9	36	0.007	0.026
RI	Washington County	123,546	ND	ND	ND	0.12	<b>0.09</b>	ND	ND	8.8	21	ND	ND
SC	Abbeville County	26,167	ND	ND	ND	0.10	<b>0.09</b>	ND	ND	ND	ND	ND	ND
SC	Aiken County	142,552	ND	0.01	0.005	0.11	<b>0.09</b>	21	34	ND	ND	ND	ND
SC	Anderson County	165,740	ND	ND	ND	0.10	0.08	ND	ND	ND	ND	ND	ND
SC	Barnwell County	23,478	ND	ND	0.004	0.11	<b>0.09</b>	21	42	ND	ND	0.002	0.007
SC	Beaufort County	120,937	ND	0.00	ND	ND	ND	ND	ND	12.6	23	ND	ND
SC	Berkeley County	142,651	ND	ND	ND	0.09	0.08	ND	ND	ND	ND	ND	ND
SC	Charleston County	309,969	3	0.02	0.011	0.11	0.08	23	52	14.8	31	0.003	0.013
SC	Cherokee County	52,537	ND	ND	ND	0.12	<b>0.09</b>	ND	ND	ND	ND	ND	ND
SC	Chester County	34,068	ND	ND	ND	0.09	0.08	ND	ND	ND	ND	ND	ND
SC	Chesterfield County	42,768	ND	ND	ND	ND	ND	ND	ND	IN	IN	ND	ND
SC	Colleton County	38,264	ND	ND	ND	0.10	0.08	ND	ND	IN	IN	ND	ND
SC	Darlington County	67,394	ND	ND	ND	0.11	<b>0.09</b>	ND	ND	ND	ND	ND	ND
SC	Dillon County	30,722	ND	0.00	ND	ND	ND	ND	ND	ND	ND	ND	ND
SC	Edgefield County	24,595	ND	ND	ND	0.09	0.08	ND	ND	14.8	27	ND	ND
SC	Fairfield County	23,454	ND	ND	ND	ND	ND	23	40	ND	ND	ND	ND
SC	Florence County	125,761	ND	0.01	ND	ND	ND	ND	ND	14.4	25	ND	ND
SC	Georgetown County	55,797	ND	0.02	ND	ND	ND	33	72	<b>15.6</b>	28	IN	0.010

**Table A-14.** Maximum Air Quality Concentrations by County, 2000 (continued)

State	County	CO	Pb	NO <sub>2</sub>	O <sub>3</sub>	O <sub>3</sub>	PM <sub>10</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	SO <sub>2</sub>	
		2000	8-hr	QMax	AM	1-hr	8-hr	Wtd AM	24-hr	Wtd AM	24-hr	AM	24-hr
		Population	(ppm)	(µg/m <sup>3</sup> )	(ppm)	(ppm)	(ppm)	(µg/m <sup>3</sup> )	(µg/m <sup>3</sup> )	(µg/m <sup>3</sup> )	(ppm)	(ppm)	
SC	Greenville County	379,616	4	0.02	0.016	IN	IN	IN	54	<b>16.5</b>	32	0.003	0.011
SC	Greenwood County	66,271	ND	0.02	ND	ND	ND	ND	ND	<b>15.3</b>	27	ND	ND
SC	Hampton County	21,386	ND	0.00	ND	ND	ND	ND	ND	ND	ND	ND	ND
SC	Horry County	196,629	ND	0.01	ND	ND	ND	ND	ND	IN	IN	ND	ND
SC	Laurens County	69,567	ND	0.01	ND	ND	ND	ND	ND	ND	ND	ND	ND
SC	Lexington County	216,014	ND	0.02	ND	ND	ND	46	132	<b>16.3</b>	26	0.003	0.014
SC	Oconee County	66,215	ND	ND	ND	0.10	0.08	ND	ND	IN	IN	0.002	0.009
SC	Pickens County	110,757	ND	ND	ND	0.10	0.08	ND	ND	ND	ND	ND	ND
SC	Richland County	320,677	4	0.07	0.014	0.12	<b>0.10</b>	26	109	<b>16.3</b>	28	0.003	0.010
SC	Spartanburg County	253,791	ND	0.01	ND	0.11	<b>0.09</b>	24	44	<b>15.4</b>	31	ND	ND
SC	Sumter County	104,646	ND	0.01	ND	ND	ND	ND	ND	ND	ND	ND	ND
SC	Union County	29,881	ND	ND	ND	0.09	0.08	ND	ND	ND	ND	ND	ND
SC	Williamsburg County	37,217	ND	ND	ND	0.09	0.08	ND	ND	ND	ND	ND	ND
SC	York County	164,614	ND	0.04	ND	0.09	0.08	28	46	IN	IN	ND	ND
SD	Brookings County	28,220	ND	ND	ND	ND	ND	23	71	IN	IN	ND	ND
SD	Brown County	35,460	ND	ND	ND	ND	ND	19	50	IN	IN	ND	ND
SD	Jackson County	2,930	ND	ND	ND	ND	ND	12	35	IN	IN	ND	ND
SD	Minnehaha County	148,281	ND	ND	ND	IN	IN	20	53	IN	IN	ND	ND
SD	Pennington County	88,565	ND	ND	ND	IN	IN	38	139	IN	IN	ND	ND
TN	Anderson County	71,330	ND	ND	ND	0.11	<b>0.09</b>	ND	ND	ND	ND	0.004	0.018
TN	Blount County	105,823	ND	ND	IN	0.11	<b>0.10</b>	ND	ND	IN	IN	0.010	0.060
TN	Bradley County	87,965	ND	ND	0.014	ND	ND	33	105	ND	ND	0.008	0.026
TN	Davidson County	569,891	6	ND	0.019	0.11	0.08	34	65	IN	IN	0.004	0.017
TN	Dickson County	43,156	ND	ND	IN	IN	IN	ND	ND	ND	ND	IN	0.012
TN	Dyer County	37,279	ND	ND	ND	ND	ND	ND	ND	IN	IN	ND	ND
TN	Greene County	62,909	ND	ND	ND	ND	ND	IN	66	ND	ND	ND	ND
TN	Hamilton County	307,896	ND	ND	ND	0.12	<b>0.10</b>	30	67	IN	IN	ND	ND
TN	Hawkins County	53,563	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.007	0.043
TN	Haywood County	19,797	ND	ND	ND	0.12	<b>0.09</b>	ND	ND	ND	ND	ND	ND
TN	Humphreys County	17,929	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.004	0.025
TN	Jefferson County	44,294	ND	ND	ND	0.12	<b>0.10</b>	ND	ND	ND	ND	ND	ND
TN	Knox County	382,032	3	0.00	0.013	<b>0.13</b>	<b>0.10</b>	30	73	IN	IN	0.002	0.012
TN	Lawrence County	39,926	ND	ND	ND	0.09	0.08	ND	ND	IN	IN	ND	ND
TN	McMinn County	49,015	ND	ND	0.015	ND	ND	40	96	IN	IN	0.006	0.022
TN	Madison County	91,837	ND	ND	ND	ND	ND	23	44	IN	IN	ND	ND
TN	Maury County	69,498	ND	ND	ND	ND	ND	ND	ND	IN	IN	ND	ND
TN	Meigs County	11,086	ND	ND	ND	0.11	<b>0.10</b>	ND	ND	ND	ND	ND	ND
TN	Montgomery County	134,768	ND	ND	IN	0.11	<b>0.09</b>	23	51	IN	IN	0.006	0.018
TN	Polk County	16,050	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.009	0.023
TN	Putnam County	62,315	ND	ND	ND	0.10	<b>0.09</b>	ND	ND	IN	IN	ND	ND
TN	Roane County	51,910	ND	ND	0.008	0.12	<b>0.09</b>	27	77	IN	IN	0.003	0.018
TN	Rutherford County	182,023	ND	ND	ND	0.10	<b>0.09</b>	ND	ND	ND	ND	ND	ND
TN	Sevier County	71,170	ND	ND	ND	0.12	<b>0.10</b>	ND	ND	ND	ND	ND	ND
TN	Shelby County	897,472	4	0.59	0.025	0.12	<b>0.09</b>	28	71	IN	IN	0.006	0.038
TN	Stewart County	12,370	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.002	0.010
TN	Sullivan County	153,048	2	0.20	0.015	<b>0.13</b>	<b>0.10</b>	ND	ND	IN	IN	0.011	0.043
TN	Sumner County	130,449	ND	ND	ND	0.12	<b>0.09</b>	ND	ND	IN	IN	0.004	0.040
TN	Union County	17,808	ND	ND	ND	ND	ND	34	125	ND	ND	ND	ND
TN	Williamson County	126,638	ND	1.50	ND	0.12	<b>0.09</b>	ND	ND	ND	ND	ND	ND
TN	Wilson County	88,809	ND	ND	ND	0.10	<b>0.09</b>	ND	ND	ND	ND	ND	ND
TX	Bexar County	1,392,931	3	ND	0.018	0.10	0.08	IN	IN	IN	IN	ND	ND
TX	Bowie County	89,306	ND	ND	ND	ND	ND	ND	ND	14.7	31	ND	ND
TX	Brazoria County	241,767	ND	ND	ND	<b>0.14</b>	0.08	ND	ND	IN	IN	ND	ND
TX	Brewster County	8,866	ND	ND	ND	0.07	0.06	ND	ND	ND	ND	IN	0.002
TX	Caldwell County	32,194	ND	ND	ND	ND	ND	ND	ND	IN	IN	ND	ND
TX	Cameron County	335,227	2	0.01	ND	0.08	0.06	25	58	IN	IN	0.001	0.002

**Table A-14.** Maximum Air Quality Concentrations by County, 2000 (continued)

State	County	CO	Pb	NO <sub>2</sub>	O <sub>3</sub>	O <sub>3</sub>	PM <sub>10</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	SO <sub>2</sub>	
		2000	8-hr	QMax	AM	1-hr	8-hr	Wtd AM	24-hr	Wtd AM	24-hr	AM	24-hr
		Population	(ppm)	(µg/m <sup>3</sup> )	(ppm)	(ppm)	(ppm)	(µg/m <sup>3</sup> )	(µg/m <sup>3</sup> )	(µg/m <sup>3</sup> )	(ppm)	(ppm)	
TX	Collin County	491,675	ND	0.54	ND	0.12	<b>0.10</b>	ND	ND	11.6	26	ND	ND
TX	Dallas County	2,218,899	2	0.13	0.014	<b>0.13</b>	<b>0.10</b>	29	55	13.2	32	0.002	0.005
TX	Denton County	432,976	ND	ND	0.009	0.12	<b>0.10</b>	ND	ND	ND	ND	ND	ND
TX	Ector County	121,123	ND	ND	ND	ND	ND	ND	ND	IN	IN	ND	ND
TX	Ellis County	111,360	ND	ND	0.009	0.12	<b>0.10</b>	28	58	ND	ND	0.006	0.047
TX	EI Paso County	679,622	9	0.10	0.029	0.12	0.08	46	124	9.8	23	0.002	0.006
TX	Galveston County	250,158	ND	ND	0.005	<b>0.14</b>	<b>0.09</b>	27	53	IN	IN	0.004	0.037
TX	Gregg County	111,379	ND	ND	0.006	<b>0.13</b>	<b>0.10</b>	ND	ND	13.4	29	0.002	0.011
TX	Harris County	3,400,578	4	0.01	0.021	<b>0.19</b>	<b>0.12</b>	46	102	IN	IN	0.006	0.031
TX	Hidalgo County	569,463	ND	ND	ND	0.09	0.08	IN	53	11.0	23	ND	ND
TX	Hood County	41,100	ND	ND	ND	0.10	0.08	ND	ND	ND	ND	ND	ND
TX	Jefferson County	252,051	ND	ND	0.008	<b>0.16</b>	<b>0.10</b>	ND	ND	IN	<b>122</b>	0.006	0.046
TX	Johnson County	126,811	ND	ND	ND	0.11	0.08	ND	ND	ND	ND	ND	ND
TX	Kaufman County	71,313	ND	ND	0.007	IN	IN	ND	ND	ND	ND	0.002	0.005
TX	Lubbock County	242,628	ND	ND	ND	ND	ND	IN	38	7.4	19	ND	ND
TX	McLennan County	213,517	ND	ND	ND	ND	ND	ND	ND	IN	IN	ND	ND
TX	Marion County	10,941	ND	ND	0.005	0.12	<b>0.10</b>	ND	ND	12.3	29	ND	ND
TX	Montgomery County	293,768	ND	ND	0.006	<b>0.14</b>	<b>0.10</b>	ND	ND	IN	IN	ND	ND
TX	Nueces County	313,645	ND	ND	ND	0.10	0.08	36	71	IN	IN	0.003	0.017
TX	Orange County	84,966	ND	ND	0.008	0.12	<b>0.09</b>	ND	ND	IN	IN	ND	ND
TX	Parker County	88,495	ND	ND	ND	IN	IN	ND	ND	ND	ND	ND	ND
TX	Potter County	113,546	ND	ND	ND	ND	ND	ND	ND	IN	IN	ND	ND
TX	Rockwall County	43,080	ND	ND	ND	0.12	<b>0.09</b>	ND	ND	ND	ND	ND	ND
TX	Smith County	174,706	ND	ND	0.006	0.10	<b>0.09</b>	ND	ND	ND	ND	ND	ND
TX	Tarrant County	1,446,219	2	ND	0.015	0.12	<b>0.10</b>	23	42	12.7	29	ND	ND
TX	Travis County	812,280	1	ND	0.005	0.11	<b>0.09</b>	23	50	12.1	27	ND	ND
TX	Victoria County	84,088	ND	ND	ND	0.09	0.08	ND	ND	ND	ND	ND	ND
TX	Webb County	193,117	6	0.04	ND	0.09	0.07	31	56	12.1	23	ND	ND
UT	Box Elder County	42,745	ND	ND	ND	ND	ND	ND	ND	IN	IN	ND	ND
UT	Cache County	91,391	3	ND	ND	0.08	0.07	25	79	IN	IN	ND	ND
UT	Davis County	238,994	3	ND	0.019	0.10	0.08	ND	ND	9.0	40	0.002	0.013
UT	Grand County	8,485	ND	ND	ND	ND	ND	20	44	ND	ND	ND	ND
UT	Salt Lake County	898,387	5	0.07	0.026	0.10	0.08	46	117	14.2	57	0.004	0.013
UT	San Juan County	14,413	ND	ND	ND	IN	IN	ND	ND	ND	ND	ND	ND
UT	Tooele County	40,735	ND	ND	ND	ND	ND	ND	ND	7.1	30	ND	ND
UT	Utah County	368,536	6	ND	0.024	0.10	0.08	32	89	10.1	34	ND	ND
UT	Weber County	196,533	6	ND	IN	0.09	0.07	IN	IN	7.6	25	ND	ND
VT	Bennington County	36,994	ND	ND	ND	0.09	0.07	15	28	9.5	20	ND	ND
VT	Chittenden County	146,571	2	ND	IN	0.08	0.07	12	28	8.3	17	IN	0.007
VT	Rutland County	63,400	3	ND	0.011	ND	ND	18	42	11.1	24	0.005	0.033
VT	Washington County	58,039	ND	ND	ND	ND	ND	17	43	10.1	20	ND	ND
VA	Arlington County	189,453	3	ND	0.023	0.11	0.08	ND	ND	14.6	28	ND	ND
VA	Caroline County	22,121	ND	ND	IN	0.10	0.08	ND	ND	ND	ND	ND	ND
VA	Carroll County	29,245	ND	ND	ND	ND	ND	20	52	ND	ND	ND	ND
VA	Charles City County	6,926	ND	ND	0.011	0.09	0.08	ND	ND	IN	IN	0.006	0.017
VA	Chesterfield County	259,903	ND	ND	ND	0.10	0.08	ND	ND	<b>15.1</b>	29	ND	ND
VA	Culpeper County	34,262	ND	ND	ND	ND	ND	18	39	ND	ND	ND	ND
VA	Fairfax County	969,749	4	ND	0.021	0.11	<b>0.09</b>	20	45	14.0	34	0.011	0.030
VA	Fauquier County	55,139	ND	ND	ND	0.09	0.08	ND	ND	ND	ND	ND	ND
VA	Frederick County	59,209	ND	ND	ND	0.09	0.08	ND	ND	ND	ND	ND	ND
VA	Henrico County	262,300	ND	ND	ND	0.11	0.08	ND	ND	14.6	30	ND	ND
VA	King William County	13,146	ND	ND	ND	ND	ND	18	40	ND	ND	ND	ND
VA	Loudoun County	169,599	ND	ND	0.013	0.09	0.08	ND	ND	13.5	28	ND	ND
VA	Madison County	12,520	ND	ND	ND	0.09	0.08	ND	ND	ND	ND	0.003	0.011
VA	Northumberland County	12,259	ND	ND	ND	ND	ND	18	38	ND	ND	ND	ND
VA	Page County	23,177	ND	ND	ND	0.09	0.08	ND	ND	13.2	25	ND	ND

**Table A-14.** Maximum Air Quality Concentrations by County, 2000 (continued)

State	County	CO	Pb	NO <sub>2</sub>	O <sub>3</sub>	O <sub>3</sub>	PM <sub>10</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	SO <sub>2</sub>	
		2000	8-hr	QMax	AM	1-hr	8-hr	Wtd AM	24-hr	Wtd AM	24-hr	AM	24-hr
		Population	(ppm)	(µg/m <sup>3</sup> )	(ppm)	(ppm)	(ppm)	(µg/m <sup>3</sup> )	(µg/m <sup>3</sup> )	(µg/m <sup>3</sup> )	(ppm)	(ppm)	
VA	Prince William County	280,813	ND	ND	0.009	0.09	0.08	IN	47	ND	ND	ND	ND
VA	Roanoke County	85,778	ND	ND	0.011	0.10	0.08	ND	ND	ND	ND	0.003	0.014
VA	Rockbridge County	20,808	ND	ND	ND	0.09	0.08	ND	ND	ND	ND	ND	ND
VA	Rockingham County	67,725	ND	ND	ND	ND	ND	26	59	ND	ND	0.003	0.008
VA	Stafford County	92,446	ND	ND	ND	0.10	0.08	ND	ND	ND	ND	ND	ND
VA	Warren County	31,584	ND	ND	ND	ND	ND	20	43	ND	ND	ND	ND
VA	Wise County	40,123	ND	ND	ND	ND	ND	IN	IN	ND	ND	ND	ND
VA	Wythe County	27,599	ND	ND	ND	0.09	0.08	ND	ND	ND	ND	ND	ND
VA	Alexandria city	128,283	3	ND	0.023	0.10	0.08	ND	ND	ND	ND	0.006	0.020
VA	Bristol city	17,367	ND	ND	ND	ND	ND	ND	ND	16.4	29	ND	ND
VA	Charlottesville city	45,049	ND	ND	ND	ND	ND	23	70	ND	ND	ND	ND
VA	Chesapeake city	199,184	ND	ND	ND	ND	ND	IN	40	IN	IN	ND	ND
VA	Fredericksburg city	19,279	ND	ND	ND	ND	ND	18	36	ND	ND	ND	ND
VA	Hampton city	146,437	2	ND	ND	0.09	0.08	20	41	IN	IN	0.005	0.017
VA	Lynchburg city	65,269	ND	ND	ND	ND	ND	ND	ND	IN	IN	ND	ND
VA	Newport News city	180,150	ND	ND	ND	ND	ND	ND	ND	13.0	24	ND	ND
VA	Norfolk city	234,403	4	ND	0.016	ND	ND	22	39	13.6	26	0.007	0.023
VA	Richmond city	197,790	3	ND	0.017	ND	ND	IN	42	IN	IN	0.005	0.015
VA	Roanoke city	94,911	3	ND	ND	ND	ND	32	66	15.9	31	ND	ND
VA	Salem city	24,747	ND	ND	ND	ND	ND	ND	ND	15.5	33	ND	ND
VA	Suffolk city	63,677	ND	ND	ND	0.10	0.08	ND	ND	ND	ND	ND	ND
VA	Virginia Beach city	425,257	ND	ND	ND	ND	ND	ND	ND	13.0	25	ND	ND
VA	Winchester city	23,585	ND	ND	ND	ND	ND	20	43	ND	ND	ND	ND
WA	Adams County	16,428	ND	ND	ND	ND	ND	ND	ND	IN	IN	ND	ND
WA	Asotin County	20,551	ND	ND	ND	ND	ND	27	59	ND	ND	ND	ND
WA	Benton County	142,475	ND	ND	ND	ND	ND	IN	140	IN	IN	ND	ND
WA	Chelan County	66,616	ND	ND	ND	ND	ND	20	49	ND	ND	ND	ND
WA	Clallam County	64,525	ND	ND	ND	0.06	0.05	ND	ND	10.8	26	0.002	0.005
WA	Clark County	345,238	6	ND	ND	0.07	0.06	16	41	10.8	40	ND	ND
WA	Cowlitz County	92,948	ND	ND	ND	ND	ND	21	49	ND	ND	ND	ND
WA	Jefferson County	25,953	ND	ND	ND	ND	ND	ND	ND	9.1	25	ND	ND
WA	King County	1,737,034	6	ND	0.021	0.10	0.07	23	66	12.7	36	0.003	0.011
WA	Kittitas County	33,362	ND	ND	ND	ND	IN	104	ND	ND	ND	ND	ND
WA	Klickitat County	19,161	ND	ND	ND	0.07	0.07	ND	ND	ND	ND	ND	ND
WA	Lewis County	68,600	ND	ND	ND	IN	IN	ND	ND	IN	IN	ND	ND
WA	Pierce County	700,820	6	ND	ND	0.08	0.06	28	58	13.0	49	ND	ND
WA	Skagit County	102,979	ND	ND	ND	0.06	0.05	ND	ND	8.2	18	ND	ND
WA	Snohomish County	606,024	6	ND	ND	ND	ND	IN	47	12.6	43	ND	ND
WA	Spokane County	417,939	6	ND	ND	0.08	0.07	28	87	11.0	38	ND	ND
WA	Stevens County	40,066	ND	ND	ND	ND	ND	30	137	ND	ND	ND	ND
WA	Thurston County	207,355	5	ND	ND	0.08	0.06	15	36	10.3	41	ND	ND
WA	Walla Walla County	55,180	ND	ND	ND	ND	ND	29	108	ND	ND	ND	ND
WA	Whatcom County	166,814	ND	ND	ND	0.06	0.05	15	29	8.4	21	ND	ND
WA	Whitman County	40,740	ND	ND	ND	ND	ND	ND	ND	6.8	19	ND	ND
WA	Yakima County	222,581	3	ND	ND	ND	ND	27	58	IN	IN	ND	ND
WV	Berkeley County	75,905	ND	ND	ND	ND	ND	24	68	16.1	46	ND	ND
WV	Brooke County	25,447	ND	ND	ND	ND	ND	26	54	16.6	35	0.013	0.060
WV	Cabell County	96,784	ND	ND	ND	0.09	0.08	24	60	17.6	40	0.006	0.028
WV	Greenbrier County	34,453	ND	ND	ND	0.09	0.08	ND	ND	ND	ND	ND	ND
WV	Hancock County	32,667	8	ND	ND	0.09	0.07	31	95	16.5	45	0.014	0.069
WV	Harrison County	68,652	ND	ND	ND	ND	ND	20	43	14.9	31	ND	ND
WV	Kanawha County	200,073	ND	ND	ND	0.09	0.09	27	50	18.1	37	0.012	0.046
WV	Marion County	56,598	ND	ND	ND	ND	ND	23	54	15.9	IN	ND	ND
WV	Marshall County	35,519	ND	ND	ND	ND	ND	IN	43	16.3	33	0.013	0.044
WV	Mercer County	62,980	ND	ND	ND	ND	ND	22	48	13.5	33	ND	ND
WV	Monongalia County	81,866	ND	ND	ND	0.10	0.08	23	47	15.0	33	0.010	0.040

**Table A-14.** Maximum Air Quality Concentrations by County, 2000 (continued)

State	County	CO	Pb	NO <sub>2</sub>	O <sub>3</sub>	O <sub>3</sub>	PM <sub>10</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	SO <sub>2</sub>	
		2000	8-hr	QMax	AM	1-hr	8-hr	Wtd AM	24-hr	Wtd AM	24-hr	AM	24-hr
		Population	(ppm)	(µg/m <sup>3</sup> )	(ppm)	(ppm)	(ppm)	(µg/m <sup>3</sup> )	(µg/m <sup>3</sup> )	(µg/m <sup>3</sup> )	(ppm)	(ppm)	
WV	Ohio County	47,427	2	ND	ND	0.09	0.07	23	43	15.5	35	0.009	0.041
WV	Raleigh County	79,220	ND	ND	ND	ND	ND	19	43	13.8	32	ND	ND
WV	Summers County	12,999	ND	ND	ND	ND	ND	16	41	10.4	30	ND	ND
WV	Wayne County	42,903	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.012	0.046
WV	Wood County	87,986	ND	ND	ND	0.11	0.09	21	42	17.5	36	0.011	0.036
WI	Brown County	226,778	ND	ND	ND	0.09	0.07	ND	ND	11.3	32	0.004	0.016
WI	Columbia County	52,468	ND	ND	ND	0.09	0.07	ND	ND	ND	ND	ND	ND
WI	Dane County	426,526	2	ND	ND	0.09	0.07	22	57	13.2	34	ND	ND
WI	Dodge County	85,897	ND	ND	ND	0.09	0.07	ND	ND	11.7	28	ND	ND
WI	Door County	27,961	ND	ND	ND	0.10	0.08	ND	ND	7.2	26	ND	ND
WI	Douglas County	43,287	ND	ND	ND	ND	ND	19	35	8.2	24	ND	ND
WI	Florence County	5,088	ND	ND	ND	0.08	0.07	ND	ND	ND	ND	ND	ND
WI	Fond du Lac County	97,296	ND	ND	ND	0.08	0.07	ND	ND	ND	ND	ND	ND
WI	Grant County	49,597	ND	ND	ND	ND	ND	ND	ND	12.3	27	ND	ND
WI	Green County	33,647	ND	ND	ND	IN	IN	ND	ND	ND	ND	ND	ND
WI	Jefferson County	74,021	ND	ND	ND	IN	IN	ND	ND	12.1	33	ND	ND
WI	Kenosha County	149,577	ND	ND	ND	0.10	0.09	ND	ND	11.4	27	ND	ND
WI	Kewaunee County	20,187	ND	ND	ND	0.10	0.08	ND	ND	ND	ND	ND	ND
WI	Manitowoc County	82,887	ND	ND	ND	0.09	0.08	ND	ND	10.1	30	ND	ND
WI	Marathon County	125,834	ND	ND	ND	0.08	0.07	IN	IN	ND	ND	ND	ND
WI	Milwaukee County	940,164	2	ND	0.021	0.10	0.08	20	59	14.2	35	0.004	0.026
WI	Oneida County	36,776	ND	ND	ND	0.07	0.07	ND	ND	ND	ND	0.006	0.075
WI	Outagamie County	160,971	ND	ND	ND	0.08	0.07	ND	ND	11.5	32	ND	ND
WI	Ozaukee County	82,317	ND	ND	IN	0.10	0.09	ND	ND	11.5	27	ND	ND
WI	Racine County	188,831	2	ND	ND	0.10	0.08	ND	ND	ND	ND	ND	ND
WI	Rock County	152,307	ND	ND	ND	0.10	0.08	ND	ND	13.3	29	ND	ND
WI	St. Croix County	63,155	ND	ND	ND	0.09	0.07	ND	ND	IN	IN	ND	ND
WI	Sauk County	55,225	ND	ND	ND	0.08	0.07	ND	ND	ND	ND	ND	ND
WI	Sheboygan County	112,646	ND	ND	ND	0.11	0.09	ND	ND	ND	ND	ND	ND
WI	Vernon County	28,056	ND	ND	ND	0.08	0.07	ND	ND	ND	ND	ND	ND
WI	Vilas County	21,033	ND	ND	ND	0.07	0.07	7	20	5.4	17	ND	ND
WI	Walworth County	93,759	ND	ND	ND	0.09	0.08	ND	ND	ND	ND	ND	ND
WI	Washington County	117,493	ND	ND	ND	0.09	0.08	ND	ND	ND	ND	ND	ND
WI	Waukesha County	360,767	2	ND	ND	0.09	0.08	21	45	13.4	31	ND	ND
WI	Winnebago County	156,763	ND	ND	ND	0.09	0.07	ND	ND	11.4	32	ND	ND
WI	Wood County	75,555	ND	ND	ND	ND	ND	ND	ND	10.9	35	IN	0.019
WY	Albany County	32,014	ND	ND	ND	ND	ND	IN	64	ND	ND	ND	ND
WY	Campbell County	33,698	ND	ND	ND	ND	ND	47	143	ND	ND	ND	ND
WY	Converse County	12,052	ND	ND	ND	ND	ND	26	62	ND	ND	ND	ND
WY	Fremont County	35,804	ND	ND	ND	ND	ND	22	53	IN	IN	ND	ND
WY	Laramie County	81,607	ND	ND	ND	ND	ND	16	30	5.6	13	ND	ND
WY	Natrona County	66,533	ND	ND	ND	ND	ND	17	38	ND	ND	ND	ND
WY	Park County	25,786	ND	ND	ND	ND	ND	20	62	ND	ND	ND	ND
WY	Sheridan County	26,560	ND	ND	ND	ND	ND	IN	67	11.6	36	ND	ND
WY	Sweetwater County	37,613	ND	ND	ND	ND	ND	26	124	ND	ND	ND	ND
WY	Teton County	18,251	ND	ND	ND	0.07	0.07	IN	IN	ND	ND	ND	ND
PR	Barceloneta Municipio	22,322	ND	ND	ND	ND	ND	IN	74	ND	ND	IN	0.016
PR	Bayamon Municipio	224,044	ND	ND	ND	ND	ND	25	77	7.3	18	0.004	0.058
PR	Carolina Municipio	186,076	ND	ND	ND	ND	ND	IN	74	ND	ND	ND	ND
PR	Catano Municipio	30,071	ND	ND	0.018	0.10	0.05	30	89	ND	ND	0.006	0.027
PR	Fajardo Municipio	40,712	ND	ND	ND	ND	ND	IN	84	IN	IN	ND	ND
PR	Guayama Municipio	44,301	ND	ND	ND	ND	ND	26	77	IN	IN	ND	ND
PR	Guayanilla Municipio	23,072	ND	ND	ND	ND	ND	ND	ND	IN	IN	ND	ND
PR	Guaynabo Municipio	100,053	ND	ND	ND	ND	ND	37	102	IN	IN	ND	ND
PR	Humacao Municipio	59,035	ND	ND	ND	ND	ND	IN	IN	IN	IN	ND	ND
PR	Lares Municipio	34,415	ND	ND	ND	ND	ND	ND	ND	IN	IN	ND	ND
PR	Manati Municipio	45,409	ND	ND	ND	ND	ND	IN	73	ND	ND	ND	ND

**Table A-14.** Maximum Air Quality Concentrations by County, 2000 (continued)

State	County	CO	Pb	NO <sub>2</sub>	O <sub>3</sub>	O <sub>3</sub>	PM <sub>10</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	SO <sub>2</sub>
		2000 Population	8-hr (ppm)	QMax ( $\mu\text{g}/\text{m}^3$ )	AM (ppm)	1-hr (ppm)	8-hr (ppm)	Wtd AM ( $\mu\text{g}/\text{m}^3$ )	24-hr Wtd AM ( $\mu\text{g}/\text{m}^3$ )	24-hr AM ( $\mu\text{g}/\text{m}^3$ )	AM ( $\mu\text{g}/\text{m}^3$ )	24-hr ( $\mu\text{g}/\text{m}^3$ )
PR	Mayaguez Municipio	98,434	ND	ND	ND	ND	ND	ND	ND	IN	IN	ND
PR	Ponce Municipio	186,475	ND	ND	ND	ND	ND	40	77	IN	IN	ND
PR	Rio Grande Municipio	52,362	ND	ND	ND	ND	ND	IN	71	ND	ND	ND
PR	San Juan Municipio	434,374	6	0.02	IN	ND	ND	IN	60	ND	ND	ND
PR	Vieques Municipio	9,106	ND	ND	ND	ND	ND	IN	IN	ND	ND	ND

CO – Highest second maximum non-overlapping 8-hour concentration (*Applicable NAAQS is 9 ppm*)Pb – Highest quarterly maximum concentration (*Applicable NAAQS is 1.5  $\mu\text{g}/\text{m}^3$* )NO<sub>2</sub> – Highest arithmetic mean concentration (*Applicable NAAQS is 0.053 ppm*)O<sub>3</sub> (1-hr) – Highest second daily maximum 1-hour concentration (*Applicable NAAQS is 0.12 ppm*)O<sub>3</sub> (8-hr) – Highest fourth daily maximum 8-hour concentration (*Applicable NAAQS is 0.08 ppm*)PM<sub>10</sub> – Highest weighted annual mean concentration (*Applicable NAAQS is 50  $\mu\text{g}/\text{m}^3$* )PM<sub>10</sub> – Highest second maximum 24-hour concentration (*Applicable NAAQS is 150  $\mu\text{g}/\text{m}^3$* )SO<sub>2</sub> – Highest annual mean concentration (*Applicable NAAQS is 0.03 ppm*)SO<sub>2</sub> – Highest second maximum 24-hour concentration (*Applicable NAAQS is 0.14 ppm*)

ND – Indicates data not available

IN – Indicates insufficient data to calculate summary statistic

Wtd – Weighted

AM – Annual mean

 $\mu\text{g}/\text{m}^3$  – Units are micrograms per cubic meter

PPM – Units are parts per million

Data from exceptional events not included.

(\*) – These PM<sub>10</sub> statistics were converted from local temperature and pressure to standard temperature and pressure to ensure all PM<sub>10</sub> data in this table reflect standard conditions.

**Note:** The reader is cautioned that this summary is not adequate in itself to numerically rank MSAs according to their air quality. The monitoring data represent the quality of air in the vicinity of the monitoring site but may not necessarily represent urban-wide air quality.

**Table A-15.** Maximum Air Quality Concentrations by Metropolitan Statistical Area, 2000

Metropolitan Statistical Area Population	CO 2000 (ppm)	Pb 8-hr (µg/m³)	NO <sub>2</sub> QMax (ppm)	O <sub>3</sub> AM (ppm)	O <sub>3</sub> 1-hr (ppm)	PM <sub>10</sub> 8-hr (µg/m³)	PM <sub>10</sub> Wtd AM (µg/m³)	PM <sub>2.5</sub> 24-hr (µg/m³)	PM <sub>2.5</sub> Wtd AM (µg/m³)	SO <sub>2</sub> 24-hr AM (ppm)	SO <sub>2</sub> 24-hr AM (ppm)	
Akron, OH PMSA	694,960	3	ND	ND	0.11	<b>0.09</b>	22	53	<b>16.8</b>	36	0.009	0.044
Albany, GA MSA	120,822	ND	ND	ND	ND	ND	IN	IN	<b>17.4</b>	IN	ND	ND
Albany—Schenectady—Troy, NY MSA	875,583	3	ND	ND	0.09	0.07	ND	ND	12.3	30	0.004	0.020
Albuquerque, NM MSA	712,738	4	ND	0.017	0.09	0.08	25	122	7.9	19	ND	ND
Alexandria, LA MSA	126,337	ND	ND	ND	ND	ND	ND	ND	13.3	30	ND	ND
Allentown—Bethlehem—Easton, PA MSA	637,958	3	0.11	0.017	0.11	<b>0.09</b>	IN	85	14.5	37	0.008	0.027
Altoona, PA MSA	129,144	1	ND	0.014	0.10	0.08	IN	51	ND	ND	0.006	0.045
Amarillo, TX MSA	217,858	ND	ND	ND	ND	ND	ND	ND	IN	IN	ND	ND
Anchorage, AK MSA	260,283	6	ND	ND	ND	ND	IN	108	6.1	20	ND	ND
Ann Arbor, MI PMSA	578,736	ND	0.00	ND	0.09	0.08	ND	ND	IN	IN	ND	ND
Appleton—Oshkosh—Neenah, WI	358,365	ND	ND	ND	0.09	0.07	ND	ND	11.5	32	ND	ND
Asheville, NC MSA	225,965	ND	ND	ND	0.11	<b>0.09</b>	18	38	<b>15.1</b>	IN	ND	ND
Athens, GA MSA	153,444	ND	ND	ND	ND	ND	ND	ND	<b>19.0</b>	IN	ND	ND
Atlanta, GA MSA	4,112,198	3	0.04	0.023	<b>0.16</b>	<b>0.11</b>	36	85	<b>21.4</b>	50	0.005	0.019
Atlantic—Cape May, NJ PMSA	354,878	ND	ND	ND	0.11	<b>0.09</b>	23	42	ND	ND	0.003	0.013
Augusta—Aiken, GA—SC MSA	477,441	ND	0.01	0.005	0.12	<b>0.09</b>	21	48	<b>17.5</b>	27	ND	ND
Austin—San Marcos, TX MSA	1,249,763	1	ND	0.005	0.11	<b>0.09</b>	23	50	12.1	27	ND	ND
Bakersfield, CA MSA	661,645	5	0.00	0.023	<b>0.14</b>	<b>0.11</b>	46	136	<b>21.7</b>	<b>100</b>	ND	ND
Baltimore, MD PMSA	2,552,994	3	0.01	0.024	0.12	<b>0.10</b>	29	75	<b>19.7</b>	IN	0.006	0.024
Bangor, ME MSA	90,864	ND	ND	ND	IN	IN	17	37	9.0	24	ND	ND
Baton Rouge, LA MSA	602,894	4	ND	0.017	<b>0.14</b>	<b>0.10</b>	IN	68	15.0	36	0.006	0.031
Beaumont—Port Arthur, TX MSA	385,090	ND	ND	0.008	<b>0.16</b>	<b>0.10</b>	ND	ND	IN	<b>122</b>	0.006	0.046
Bellingham, WA MSA	166,814	ND	ND	ND	0.06	0.05	15	29	8.4	21	ND	ND
Benton Harbor, MI MSA	162,453	ND	ND	ND	0.11	0.08	ND	ND	12.1	30	ND	ND
Bergen—Passaic, NJ PMSA	1,373,167	3	ND	ND	0.10	0.08	37	86	14.6	36	0.005	0.020
Billings, MT MSA	129,352	5	ND	ND	ND	ND	18	43	8.1	25	0.006	0.026
Biloxi—Gulfport—Pascagoula, MS MSA	363,988	ND	ND	0.005	<b>0.14</b>	<b>0.09</b>	16	35	IN	IN	0.003	0.033
Binghamton, NY MSA	252,320	ND	ND	ND	ND	ND	ND	ND	IN	IN	ND	ND
Birmingham, AL MSA	921,106	5	ND	0.011	<b>0.13</b>	<b>0.10</b>	27	125	<b>22.3</b>	53	IN	IN
Bismarck, ND MSA	94,719	ND	ND	ND	ND	ND	ND	ND	6.6	14	0.006	0.053
Bloomington—Normal, IL MSA	150,433	ND	ND	ND	ND	ND	ND	ND	14.9	33	ND	ND
Boise City, ID MSA	432,345	5	ND	IN	ND	ND	34	88	9.7	38	ND	ND
Boston, MA—NH PMSA	3,406,829	2	0.02	0.029	0.09	0.08	29	59	<b>15.8</b>	IN	0.006	0.030
Boulder—Longmont, CO PMSA	291,288	4	ND	ND	0.09	0.07	23	74	9.5	25	ND	ND
Brazoria, TX PMSA	241,767	ND	ND	ND	<b>0.14</b>	0.08	ND	ND	IN	IN	ND	ND
Bridgeport, CT PMSA	459,479	2	ND	0.018	0.12	<b>0.09</b>	20	51	IN	IN	0.006	0.024
Brockton, MA PMSA	255,459	ND	ND	0.007	0.09	0.07	ND	ND	IN	IN	ND	ND
Brownsville—Harlingen—San Benito, TX	335,227	2	0.01	ND	0.08	0.06	25	58	IN	IN	0.001	0.002
Buffalo—Niagara Falls, NY MSA	1,170,111	2	0.02	0.022	0.11	<b>0.09</b>	IN	31	<b>16.1</b>	33	0.010	0.051
Burlington, VT MSA	169,391	2	ND	IN	ND	ND	12	28	8.3	17	IN	IN
Canton—Massillon, OH MSA	406,934	3	ND	ND	0.10	<b>0.09</b>	24	49	<b>18.6</b>	40	0.008	0.028
Casper, WY MSA	66,533	ND	ND	ND	ND	ND	17	38	ND	ND	ND	ND
Cedar Rapids, IA MSA	191,701	2	ND	0.005	0.08	0.08	IN	60	10.7	29	0.003	0.037
Champaign—Urbana, IL MSA	179,669	ND	ND	ND	0.08	0.07	ND	ND	14.8	28	0.002	0.016
Charleston—North Charleston, SC MSA	549,033	3	0.02	0.011	0.11	0.08	23	52	14.8	31	0.003	0.013
Charleston, WV MSA	251,662	ND	ND	ND	0.09	<b>0.09</b>	27	50	<b>18.1</b>	37	0.012	0.046
Charlotte—Gastonia—Rock Hill, NC—S	1,499,293	5	0.04	0.018	<b>0.14</b>	<b>0.10</b>	31	62	<b>17.2</b>	37	0.004	0.018
Charlottesville, VA MSA	159,576	ND	ND	ND	ND	ND	23	70	ND	ND	ND	ND
Chattanooga, TN—GA MSA	465,161	ND	ND	ND	0.12	<b>0.10</b>	30	67	IN	IN	ND	ND
Cheyenne, WY MSA	81,607	ND	ND	ND	ND	ND	16	30	5.6	13	ND	ND
Chicago, IL PMSA	8,272,768	4	0.15	0.032	0.10	0.08	35	123	<b>20.2</b>	43	0.012	0.075
Chico—Paradise, CA MSA	203,171	4	0.00	0.012	0.10	<b>0.09</b>	27	77	<b>16.3</b>	<b>70</b>	ND	ND
Cincinnati, OH—KY—IN PMSA	1,646,395	2	ND	0.022	0.11	<b>0.09</b>	32	70	<b>19.7</b>	44	0.009	0.053
Clarksville—Hopkinsville, TN—KY MSA	207,033	ND	ND	IN	0.11	<b>0.09</b>	23	51	IN	IN	0.006	0.018
Cleveland—Lorain—Elyria, OH PMSA	2,250,871	8	0.20 <sup>a</sup>	0.023	0.11	<b>0.09</b>	43	122	<b>19.8</b>	46	0.009	0.040

**Table A-15.** Maximum Air Quality Concentrations by Metropolitan Statistical Area, 2000 (continued)

Metropolitan Statistical Area Population	CO 2000 (ppm)	Pb 8-hr (µg/m³)	NO <sub>2</sub> QMax (ppm)	O <sub>3</sub> AM (ppm)	O <sub>3</sub> 1-hr (ppm)	PM <sub>10</sub> 8-hr (µg/m³)	PM <sub>10</sub> Wtd AM (µg/m³)	PM <sub>2.5</sub> 24-hr (µg/m³)	PM <sub>2.5</sub> Wtd AM (µg/m³)	SO <sub>2</sub> 24-hr (ppm)	SO <sub>2</sub> AM (ppm)	SO <sub>2</sub> 24-hr (ppm)
Colorado Springs, CO MSA	516,929	4	0.01	0.035	0.09	0.07	25	87	7.5	16	0.004	0.014
Columbia, SC MSA	536,691	4	0.07	0.014	0.12	0.10	46	132	16.3	28	0.003	0.014
Columbus, GA—AL MSA	274,624	ND	0.11b	ND	0.11	0.09	26	59	19.2	71	ND	ND
Columbus, OH MSA	1,540,157	3	0.03c	ND	0.12	0.09	34	73	18.5	IN	0.004	0.019
Corpus Christi, TX MSA	380,783	ND	ND	ND	0.10	0.08	36	71	IN	IN	0.003	0.017
Dallas, TX PMSA	3,519,176	2	0.54d	0.014	0.13	0.10	29	58	13.2	32	0.006	0.047
Danbury, CT PMSA	217,980	ND	ND	ND	0.12	0.09	ND	ND	IN	IN	0.003	0.017
Davenport—Moline—Rock Island, IA—I	359,062	ND	ND	IN	0.09	0.08	41	141	13.6	30	0.003	0.014
Dayton—Springfield, OH MSA	950,558	3	ND	ND	0.11	0.09	32	64	18.0	43	0.004	0.018
Daytona Beach, FL MSA	493,175	ND	ND	ND	0.09	0.08	21	53	10.5	26	ND	ND
Decatur, AL MSA	145,867	ND	ND	ND	0.11	0.09	23	53	IN	IN	0.002	0.005
Decatur, IL MSA	114,706	ND	ND	ND	0.09	0.08	ND	ND	15.0	31	0.005	0.025
Denver, CO PMSA	2,109,282	5	0.15	0.016	0.11	0.08	43	134	11.6	41	0.003	0.009
Des Moines, IA MSA	456,022	5	ND	ND	0.08	0.07	31	134	10.8	28	ND	ND
Detroit, MI PMSA	4,441,551	5	0.04	0.024	0.10	0.08	43	113	20.1	45	0.008	0.043
Dothan, AL MSA	137,916	ND	ND	ND	ND	ND	24	70	IN	IN	ND	ND
Dover, DE MSA	126,697	ND	ND	ND	0.13	0.09	ND	ND	12.9	23	ND	ND
Duluth—Superior, MN—WI MSA	243,815	2	ND	ND	0.07	0.07	29	69	8.2	24	ND	ND
Dutchess County, NY PMSA	280,150	ND	ND	ND	0.11	0.08	ND	ND	11.3	33	ND	ND
El Paso, TX MSA	679,622	9	0.10	0.029	0.12	0.08	46	124	9.8	23	0.002	0.006
Elkhart—Goshen, IN MSA	182,791	ND	ND	ND	0.08	0.06	ND	ND	15.7	IN	ND	ND
Elmira, NY MSA	91,070	ND	ND	ND	0.09	0.07	ND	ND	ND	ND	0.003	0.012
Enid, OK MSA	57,813	ND	ND	0.007	ND	ND	ND	ND	10.3	25	ND	ND
Erie, PA MSA	280,843	6	ND	0.012	0.10	0.08	IN	41	IN	IN	0.008	0.041
Eugene—Springfield, OR MSA	322,959	4	ND	ND	IN	IN	IN	69	IN	IN	ND	ND
Evansville—Henderson, IN—KY MSA	296,195	3	ND	0.016	0.10	0.09	28	68	16.1	39	0.015	0.084
Fargo—Moorhead, ND—MN MSA	174,367	N <sup>d</sup>	ND	0.007	0.07	0.06	17	39	8.2	29	0.001	0.003
Fayetteville, NC MSA	302,963	4	ND	ND	0.11	0.09	IN	52	16.2	67	ND	ND
Fayetteville—Springdale—Rogers, AR	311,121	ND	ND	ND	ND	ND	ND	N <sup>d</sup>	IN	IN	ND	ND
Fitchburg—Leominster, MA PMSA	142,284	ND	ND	ND	ND	ND	ND	ND	IN	IN	ND	ND
Flagstaff, AZ—UT MSA	122,366	ND	ND	ND	0.08	0.07	16	33	IN	IN	ND	ND
Flint, MI PMSA	436,141	ND	0.01	ND	0.09	0.07	19	36	12.9	32	0.004	0.015
<b>Florence, AL MSA</b>	142,950	ND	ND	ND	ND	ND	ND	ND	IN	IN	0.003	0.017
Florence, SC MSA	125,761	ND	0.01	ND	ND	ND	ND	ND	14.4	25	ND	ND
Fort Collins—Loveland, CO MSA	251,494	4	ND	ND	0.10	0.08	IN	66	8.3	20	ND	ND
Fort Lauderdale, FL PMSA	1,623,018	4	0.05	0.010	0.09	0.07	19	31	9.6	36	0.003	0.026
Fort Myers—Cape Coral, FL MSA	440,888	ND	ND	ND	0.09	0.08	19	43	9.6	25	ND	ND
Fort Pierce—Port St. Lucie, FL MSA	319,426	ND	ND	0.010	0.08	0.07	18	35	10.1	23	N <sup>d</sup>	ND
Fort Smith, AR—OK MSA	207,290	ND	ND	ND	ND	ND	ND	ND	13.5	27	ND	ND
Fort Wayne, IN MSA	502,141	4	ND	ND	0.10	0.09	24	60	15.7	47	ND	ND
Fort Worth—Arlington, TX PMSA	1,702,625	2	ND	0.015	0.12	0.10	23	42	12.7	29	ND	ND
Fresno, CA MSA	922,516	6	0.00	0.020	0.15	0.11	41	122	25.4	89	ND	ND
Gadsden, AL MSA	103,459	ND	ND	ND	ND	ND	26	64	IN	IN	ND	ND
Gainesville, FL MSA	217,955	ND	ND	ND	0.10	0.08	20	36	11.9	27	ND	ND
Galveston—Texas City, TX PMSA	250,158	ND	ND	0.005	0.14	0.09	27	53	IN	IN	0.004	0.037
Gary, IN PMSA	631,362	3	0.11	0.020	0.10	0.09	31	123	17.1	38	0.006	0.046
Goldsboro, NC MSA	113,329	ND	ND	ND	ND	ND	21	40	15.8	40	ND	ND
Grand Forks, ND—MN MSA	97,478	ND	ND	ND	ND	ND	ND	ND	8.2	25	ND	ND
Grand Junction, CO MSA	116,255	4	ND	ND	ND	ND	20	53	7.4	26	ND	ND
Grand Rapids—Muskegon—Holland, MI M	1,088,514	3	0.00	ND	0.12	0.08	21	49	13.8	35	0.002	0.010
Great Falls, MT MSA	80,357	4	ND	ND	ND	ND	ND	ND	IN	IN	IN	IN
Greeley, CO PMSA	180,936	4	ND	ND	0.09	0.07	21	58	8.9	28	ND	ND
Green Bay, WI MSA	226,778	ND	ND	ND	0.09	0.07	ND	ND	11.3	32	0.004	0.016
Greensboro—Winston-Salem—High Point	1,251,509	4	ND	0.018	0.12	0.10	24	51	17. <sup>b</sup>	38	0.005	0.019

**Table A-15.** Maximum Air Quality Concentrations by Metropolitan Statistical Area, 2000 (continued)

Metropolitan Statistical Area Population	CO 2000 (ppm)	Pb 8-hr (µg/m³)	NO <sub>2</sub> QMax (ppm)	O <sub>3</sub> AM (ppm)	O <sub>3</sub> 1-hr (ppm)	PM <sub>10</sub> 8-hr (µg/m³)	PM <sub>10</sub> Wtd AM (µg/m³)	PM <sub>2.5</sub> 24-hr (µg/m³)	PM <sub>2.5</sub> Wtd AM (µg/m³)	SO <sub>2</sub> 24-hr (ppm)	SO <sub>2</sub> AM (ppm)	SO <sub>2</sub> 24-hr (ppm)
Greenville, NC MSA	133,798	ND	ND	ND	0.11	0.08	19	36	13.9	41	0.003	0.007
Greenville—Spartanburg—Anderson, SC	962,441	4	0.02	0.016	0.12	0.09	24	54	16.5	32	0.003	0.011
Hagerstown, MD PMSA	131,923	ND	ND	ND	0.10	0.08	ND	ND	15.6	29	ND	ND
Hamilton—Middletown, OH PMSA	332,807	ND	0.01	ND	0.10	0.08	32	69	17.0	38	0.006	0.023
Harrisburg—Lebanon—Carlisle, PA MSA	629,401	2	ND	0.017	0.11	0.09	IN	53	15.8	23	0.005	0.024
Hartford, CT MSA	1,183,110	7	ND	0.017	0.12	0.09	18	39	IN	IN	0.004	0.021
Hattiesburg, MS MSA	111,674	ND	ND	ND	ND	ND	ND	ND	IN	IN	ND	ND
Hickory—Morganton—Lenoir, NC MSA	341,851	ND	ND	ND	0.11	0.09	22	42	17.4	38	ND	ND
Honolulu, HI MSA	876,156	2	ND	0.005	0.05	0.04	16	52	4.9	10	0.002	0.007
Houma, LA MSA	194,477	ND	ND	ND	0.12	0.09	ND	ND	12.4	29	ND	ND
Houston, TX PMSA	4,177,646	4	0.01	0.021	0.19	0.12	46	102	IN	IN	0.006	0.031
Huntington—Ashland, WV—KY—OH MSA	315,538	1	ND	0.015	0.09	0.08	32	80	17.6	40	0.012	0.046
Huntsville, AL MSA	342,376	2	ND	ND	0.11	0.09	24	80	IN	IN	ND	ND
Indianapolis, IN MSA	1,607,486	4	0.12e	0.017	0.10	0.09	27	67	17.8	36	0.007	0.025
Iowa City, IA MSA	111,006	ND	ND	ND	ND	ND	ND	ND	10.9	28	ND	ND
Jackson, MS MSA	440,801	3	ND	ND	0.10	0.08	24	64	15.6	35	0.002	0.006
Jackson, TN MSA	107,377	ND	ND	ND	ND	ND	23	44	IN	IN	ND	ND
Jacksonville, FL MSA	1,100,491	4	0.03	0.015	0.11	0.08	26	65	IN	IN	0.007	0.055
Jacksonville, NC MSA	150,355	ND	ND	ND	ND	ND	17	32	12.3	34	ND	ND
Jamestown, NY MSA	139,750	ND	ND	ND	0.11	0.09	14	32	IN	IN	0.008	0.065
Janesville—Beloit, WI MSA	152,307	ND	ND	ND	0.10	0.08	ND	ND	13.3	29	ND	ND
Jersey City, NJ PMSA	608,975	5	ND	0.026	0.10	0.08	IN	63	17.5	69	0.008	0.025
Johnson City—Kingsport—Bristol, TN-	480,091	2	0.20	0.015	0.13	0.10	ND	ND	16.4	29	0.011	0.043
Johnstown, PA MSA	232,621	2	0.05	0.015	0.10	0.09	IN	51	15.9	IN	0.007	0.026
Jonesboro, AR MSA	82,148	ND	ND	ND	ND	ND	ND	ND	15.2	IN	ND	ND
Joplin, MO MSA	157,322	ND	ND	ND	ND	ND	IN	126	13.2	26	ND	ND
Kalamazoo—Battle Creek, MI MSA	452,851	ND	ND	ND	0.09	0.07	IN	IN	15.1	37	ND	ND
Kansas City, MO—KS MSA	1,776,062	5	0.01	0.017	0.12	0.09	37	64	13.4	32	0.004	0.039
Kenosha, WI PMSA	149,577	ND	ND	ND	0.10	0.09	ND	ND	11.4	27	ND	ND
Knoxville, TN MSA	687,249	3	0.00	0.013	0.13	0.10	34	125	IN	IN	0.010	0.060
Kokomo, IN MSA	101,541	ND	ND	ND	ND	ND	ND	ND	15.6	35	ND	ND
Lafayette, LA MSA	385,647	ND	ND	ND	0.12	0.09	ND	ND	13.0	33	ND	ND
Lafayette, IN MSA	182,821	ND	ND	ND	ND	ND	ND	ND	15.6	35	ND	ND
Lake Charles, LA MSA	183,577	ND	ND	0.005	0.13	0.09	ND	ND	13.1	34	0.004	0.013
Lakeland—Winter Haven, FL MSA	483,924	ND	ND	ND	0.10	0.08	23	121	12.2	28	0.005	0.018
Lancaster, PA MSA	470,658	2	ND	0.014	0.11	0.09	IN	56	18.4	IN	0.005	0.024
Lansing—East Lansing, MI MSA	447,728	ND	ND	IN	0.09	0.08	ND	ND	13.6	38	ND	ND
Laredo, TX MSA	193,117	6	0.04	ND	0.09	0.07	31	56	12.1	23	ND	ND
Las Cruces, NM MSA	174,682	4	ND	0.012	0.12	0.08	42	96	10.5	31	0.001	0.003
Las Vegas, NV—AZ MSA	1,563,282	7	ND	ND	0.09	0.08	48	188	10.8	32	ND	ND
Lawrence, MA—NH PMSA	396,230	ND	ND	ND	0.07	0.06	ND	ND	IN	IN	0.004	0.020
Lawton, OK MSA	114,996	1	ND	ND	0.09	0.09	ND	ND	9.1	19	ND	ND
Lewiston—Auburn, ME MSA	90,830	ND	ND	ND	ND	ND	IN	36	9.6	26	0.004	0.018
Lexington, KY MSA	479,198	2	ND	0.013	0.09	0.08	21	49	IN	IN	0.005	0.020
Lima, OH MSA	155,084	ND	ND	ND	0.10	0.09	IN	42	ND	ND	0.003	0.015
Lincoln, NE MSA	250,291	3	ND	ND	0.07	0.06	ND	ND	IN	IN	ND	ND
Little Rock—North Little Rock, AR MS	583,845	3	ND	0.010	0.11	0.09	25	48	15.7	34	0.002	0.007
Longview—Marshall, TX MSA	208,780	ND	ND	0.006	0.13	0.10	ND	ND	13.4	29	0.002	0.011
Los Angeles—Long Beach, CA PMSA	9,519,338	10	0.06	0.044	0.17	0.11	46	93	23.9	83	0.003	0.010
Louisville, KY—IN MSA	1,025,598	4	ND	0.013	0.11	0.09	31	84	18.6	IN	0.015	0.037
Lowell, MA—NH PMSA	301,686	3	ND	ND	ND	ND	ND	ND	IN	IN	ND	ND
Lubbock, TX MSA	242,628	ND	ND	ND	ND	ND	IN	38	7.4	19	ND	ND
Lynchburg, VA MSA	214,911	ND	ND	ND	ND	ND	ND	ND	IN	IN	ND	ND
Macon, GA MSA	322,549	ND	ND	ND	0.13	0.10	IN	48	18.6	37	0.003	0.015
Madison, WI MSA	426,526	2	ND	ND	0.09	0.07	22	57	13.2	34	ND	ND

**Table A-15.** Maximum Air Quality Concentrations by Metropolitan Statistical Area, 2000 (continued)

Metropolitan Statistical Area Population	CO 2000 (ppm)	Pb 8-hr (µg/m³)	NO <sub>2</sub> QMax (ppm)	O <sub>3</sub> AM (ppm)	O <sub>3</sub> 1-hr (ppm)	PM <sub>10</sub> 8-hr (µg/m³)	PM <sub>10</sub> Wtd AM (µg/m³)	PM <sub>2.5</sub> 24-hr (µg/m³)	PM <sub>2.5</sub> Wtd AM (µg/m³)	SO <sub>2</sub> 24-hr (ppm)	SO <sub>2</sub> AM (ppm)	SO <sub>2</sub> 24-hr (ppm)
Manchester, NH PMSA	198,378	ND	ND	0.011	0.09	0.06	IN	39	IN	IN	0.005	0.022
Mansfield, OH MSA	175,818	ND	ND	ND	ND	ND	IN	53	ND	ND	ND	ND
Mayaguez, PR MSA	253,347	ND	ND	ND	ND	ND	ND	ND	IN	IN	ND	ND
McAllen—Edinburg—Mission, TX MSA	569,463	ND	ND	ND	0.09	0.08	IN	53	11.0	23	ND	ND
Medford—Ashland, OR MSA	181,269	5	ND	ND	0.08	0.07	IN	68	11.4	49	ND	ND
Melbourne—Titusville—Palm Bay, FL M	476,230	ND	ND	ND	0.09	0.08	IN	34	IN	IN	ND	ND
Memphis, TN—AR—MS MSA	1,135,614	4	0.59f	0.025	0.12	0.09	28	71	15.7	IN	0.006	0.038
Merced, CA MSA	210,554	ND	ND	0.012	0.12	0.10	35	89	17.3	47	ND	ND
Miami, FL PMSA	2,253,362	3	ND	0.016	0.09	0.08	26	51	11.3	24	0.002	0.003
Middlesex—Somerset—Hunterdon, NJ PM	1,169,641	3	0.15g	0.019	0.11	0.09	ND	ND	IN	IN	0.005	0.018
Milwaukee—Waukesha, WI PMSA	1,500,741	2	ND	0.021	0.10	0.09	21	59	14.2	35	0.004	0.026
Minneapolis—St. Paul, MN—WI MSA	2,968,806	5	0.40h	0.022	0.09	0.07	36	103	IN	IN	0.003	0.023
Mobile, AL MSA	540,258	ND	ND	ND	0.12	0.10	24	150	IN	IN	0.002	0.008
Modesto, CA MSA	446,997	4	0.00	0.018	0.11	0.09	35	100	18.9	71	ND	ND
Monmouth—Ocean, NJ PMSA	1,126,217	3	ND	ND	0.14	0.11	ND	ND	IN	IN	ND	ND
Monroe, LA MSA	147,250	ND	ND	ND	0.10	0.08	ND	ND	13.3	27	0.002	0.003
Montgomery, AL MSA	333,055	ND	ND	ND	0.11	0.09	25	61	IN	IN	ND	ND
Muncie, IN MSA	118,769	ND	0.58i	ND	ND	ND	ND	ND	16.1	49	ND	ND
Myrtle Beach, SC MSA	196,629	ND	0.01	ND	ND	ND	ND	ND	IN	IN	ND	ND
Naples, FL MSA	251,377	ND	ND	ND	ND	ND	IN	IN	ND	ND	ND	ND
Nashua, NH PMSA	190,949	4	ND	ND	0.09	0.07	15	33	ND	ND	0.004	0.020
Nashville TN MSA	1,231,311	6	1.50j	0.019	0.12	0.09	34	65	IN	IN	0.004	0.040
Nassau—Suffolk, NY PMSA	2,753,913	3	ND	0.024	0.13	0.09	17	38	12.2	36	0.007	0.025
New Bedford, MA PMSA	175,198	ND	ND	ND	0.10	0.08	ND	ND	IN	IN	ND	ND
New Haven—Meriden, CT PMSA	542,149	3	ND	0.025	0.14	0.09	32	86	16.2	40	0.006	0.031
New London—Norwich, CT—RI MSA	293,566	ND	ND	ND	0.14	0.08	16	40	IN	IN	ND	ND
New Orleans, LA MSA	1,337,726	4	0.12	0.019	0.12	0.10	IN	57	14.1	37	0.005	0.020
New York, NY PMSA	9,314,235	4	0.02	0.038	0.12	0.09	23	57	18.4	48	0.013	0.046
Newark, NJ PMSA	2,032,989	5	ND	0.041	0.11	0.09	35	108	18.7	47	0.009	0.025
Newburgh, NY—PA PMSA	387,669	ND	0.18k	ND	0.10	0.08	ND	ND	IN	IN	ND	ND
Norfolk—Virginia Beach—Newport News	1,569,541	4	ND	0.016	0.10	0.08	22	41	13.6	26	0.007	0.023
Oakland, CA PMSA	2,392,557	3	0.00	0.020	0.13	0.08	22	63	11.2	50	0.003	0.021
Ocala, FL MSA	258,916	ND	ND	ND	0.09	0.08	ND	ND	11.0	24	ND	ND
Odessa—Midland, TX MSA	237,132	ND	ND	ND	ND	ND	ND	ND	IN	IN	ND	ND
Oklahoma City, OK MSA	1,083,346	4	ND	0.013	0.10	0.09	26	62	11.5	29	0.003	0.007
Olympia, WA PMSA	207,355	5	ND	ND	0.08	0.06	15	36	10.3	41	ND	ND
Omaha, NE—IA MSA	716,998	3	0.08l	ND	0.08	0.07	48	124	11.5	28	0.001	0.016
Orange County, CA PMSA	2,846,289	6	ND	0.029	0.12	0.08	40	119	20.4	37	0.002	0.005
Orlando, FL MSA	1,644,561	3	ND	0.012	0.11	0.08	26	53	12.1	31	0.003	0.009
Owensboro, KY MSA	91,545	1	ND	0.011	0.08	0.07	20	64	IN	IN	0.005	0.018
Panama City, FL MSA	148,217	ND	ND	ND	0.12	0.09	25	46	ND	ND	ND	ND
Parkersburg—Marietta, WV—OH MSA	151,237	ND	ND	ND	0.11	0.09	21	75	17.5	36	0.011	0.036
Pensacola, FL MSA	412,153	ND	ND	0.010	0.12	0.10	22	38	13.9	32	0.005	0.032
Peoria—Pekin, IL MSA	347,387	3	0.02	ND	0.08	0.07	24	54	14.8	32	0.006	0.063
Philadelphia, PA—NJ PMSA	5,100,931	4	0.05	0.028	0.13	0.10	29	76	16.0	34	0.010	0.027
Phoenix—Mesa, AZ MSA	3,251,876	7	ND	0.036	0.11	0.09	70	232	IN	IN	0.003	0.016
Pine Bluff, AR MSA	84,278	ND	ND	ND	ND	ND	ND	ND	15.0	27	ND	ND
Pittsburgh, PA MSA	2,358,695	3	0.07	0.025	0.11	0.09	39	124	20.0	84	0.013	0.086
Pittsfield, MA MSA	84,699	ND	ND	IN	IN	ND	ND	ND	IN	IN	ND	ND
Pocatello, ID MSA	75,565	ND	ND	ND	ND	ND	31	94	10.5	57	0.008	0.036
Ponce, PR MSA	361,094	ND	ND	ND	ND	ND	40	77	IN	IN	ND	ND
Portland, ME MSA	243,537	ND	ND	ND	0.08	0.07	27	74	11.0	35	0.005	0.018
Portland—Vancouver, OR—WA PMSA	1,918,009	6	0.11	0.012	0.08	0.07	16	45	10.8	40	ND	ND
Portsmouth—Rochester, NH—ME PMSA	240,698	ND	ND	0.010	0.09	0.07	13	33	IN	IN	0.003	0.013
Providence—Fall River—Warwick, RI—	1,188,613	4	ND	0.020	0.12	0.09	29	91	14.9	36	0.007	0.042

**Table A-15.** Maximum Air Quality Concentrations by Metropolitan Statistical Area, 2000 (continued)

Metropolitan Statistical Area Population	CO 2000 (ppm)	Pb 8-hr (µg/m³)	NO <sub>2</sub> QMax (ppm)	O <sub>3</sub> AM (ppm)	O <sub>3</sub> 1-hr (ppm)	PM <sub>10</sub> 8-hr (µg/m³)	PM <sub>10</sub> Wtd AM (µg/m³)	PM <sub>2.5</sub> 24-hr (µg/m³)	PM <sub>2.5</sub> Wtd AM (µg/m³)	SO <sub>2</sub> 24-hr AM (ppm)	SO <sub>2</sub> 24-hr AM (ppm)
Provo—Orem, UT MSA	368,536	6	ND	0.024	0.10	0.08	32	89	10.1	34	ND
Pueblo, CO MSA	141,472	ND	ND	ND	ND	ND	24	64	7.9	22	ND
Racine, WI PMSA	188,831	2	ND	ND	0.10	0.08	ND	ND	ND	ND	ND
Raleigh—Durham—Chapel Hill, NC MSA	1,187,941	5	ND	ND	0.12	0.09	23	51	16.5	52	ND
Rapid City, SD MSA	88,565	ND	ND	ND	IN	IN	38	139	IN	IN	ND
Reading, PA MSA	373,638	2	0.33m	0.020	0.11	0.08	IN	45	16.9	34	0.008
Redding, CA MSA	163,256	ND	ND	ND	0.11	0.08	24	47	IN	IN	ND
Reno, NV MSA	339,486	5	ND	0.008	0.09	0.07	42	96	9.0	31	ND
Richland—Kennewick—Pasco, WA MSA	191,822	ND	ND	ND	ND	ND	IN	140	IN	IN	ND
Richmond—Petersburg, VA MSA	996,512	3	ND	0.017	0.11	0.08	IN	42	15.1	30	0.006
Riverside—San Bernardino, CA PMSA	3,254,821	4	0.05	0.038	0.17	0.12	59	190	28.4	81	0.003
Roanoke, VA MSA	235,932	3	ND	0.011	0.10	0.08	32	66	15.9	33	0.003
Rochester, MN MSA	124,277	ND	ND	ND	ND	ND	ND	ND	IN	IN	ND
Rochester, NY MSA	1,098,201	3	ND	ND	0.09	0.07	ND	ND	11.8	28	0.006
Rockford, IL MSA	371,236	3	ND	ND	0.08	0.07	ND	ND	15.0	36	ND
Rocky Mount, NC MSA	143,026	ND	ND	ND	0.11	0.09	20	41	14.7	35	ND
Sacramento, CA PMSA	1,628,197	6	0.00	0.019	0.13	0.10	27	82	12.3	81	IN
Saginaw—Bay City—Midland, MI MSA	403,070	ND	ND	ND	ND	ND	ND	ND	IN	IN	ND
St. Cloud, MN MSA	167,392	3	ND	ND	ND	ND	ND	ND	IN	IN	ND
St. Joseph, MO MSA	102,490	ND	ND	ND	ND	ND	31	80	11.8	27	IN
St. Louis, MO—IL MSA	2,603,607	4	6.86n	0.026	0.12	0.09	45	116	20.6	43	0.008
Salem, OR PMSA	347,214	IN	ND	ND	0.07	0.06	ND	ND	8.9	31	ND
Salinas, CA MSA	401,762	1	ND	0.007	0.08	0.06	30	70	8.0	22	ND
Salt Lake City—Ogden, UT MSA	1,333,914	6	0.07	0.026	0.10	0.08	46	117	14.2	57	0.004
San Antonio, TX MSA	1,592,383	3	ND	0.018	0.10	0.08	IN	IN	IN	ND	ND
San Diego, CA MSA	2,813,833	5	0.02	0.024	0.12	0.10	31	86	15.9	IN	0.004
San Francisco, CA PMSA	1,731,183	4	0.00	0.020	0.08	0.05	24	53	10.9	43	0.002
San Jose, CA PMSA	1,682,585	7	0.00	0.025	0.10	0.07	27	68	13.5	57	ND
San Juan—Bayamon, PR PMSA	1,967,627	6	0.02	0.018	0.10	0.05	37	102	7.3	18	0.006
San Luis Obispo—Atascadero—Paso Rob	246,681	2	ND	0.012	0.08	0.07	21	102	10.5	41	0.005
Santa Barbara—Santa Maria—Lompoc, C	399,347	3	0.00	0.018	0.10	0.08	26	62	9.7	19	0.002
Santa Cruz—Watsonville, CA PMSA	255,602	1	ND	0.005	0.09	0.06	26	50	7.9	18	0.001
Santa Fe, NM MSA	147,635	2	ND	ND	ND	ND	11	28	5.2	10	ND
Santa Rosa, CA PMSA	458,614	3	ND	0.013	0.08	0.06	18	40	10.3	40	ND
Sarasota—Bradenton, FL MSA	589,959	4	ND	0.009	0.11	0.09	26	48	11.0	30	0.002
Savannah, GA MSA	293,000	ND	ND	ND	0.10	0.08	26	66	15.1	IN	0.003
Scranton—Wilkes-Barre—Hazleton, PA	624,776	2	ND	0.015	0.09	0.08	IN	46	12.7	33	0.006
Seattle—Bellevue—Everett, WA PMSA	2,414,616	6	ND	0.021	0.10	0.07	23	66	12.7	43	0.003
Sharon, PA MSA	120,293	ND	ND	ND	0.10	0.08	ND	ND	IN	IN	0.007
Sheboygan, WI MSA	112,646	ND	ND	ND	0.11	0.09	ND	ND	ND	ND	ND
Shreveport—Bossier City, LA MSA	392,302	ND	ND	ND	0.13	0.09	24	51	13.8	31	0.002
Sioux City, IA—NE MSA	124,130	ND	ND	ND	ND	ND	25	76	9.5	31	ND
Sioux Falls, SD MSA	172,412	ND	ND	ND	IN	IN	20	53	IN	IN	ND
South Bend, IN MSA	265,559	ND	ND	0.016	0.10	0.08	19	35	13.7	36	ND
Spokane, WA MSA	417,939	6	ND	ND	0.08	0.07	28	87	11.0	38	ND
Springfield, IL MSA	201,437	2	ND	ND	0.10	0.08	26	54	13.4	32	0.005
Springfield, MO MSA	325,721	3	ND	0.012	0.09	0.08	18	35	12.3	27	0.005
Springfield, MA MSA	591,932	4	ND	0.026	0.10	0.08	28	57	15.9	37	0.005
Stamford—Norwalk, CT PMSA	353,556	3	ND	ND	0.12	0.08	31	67	IN	IN	0.005
State College, PA MSA	135,758	ND	ND	ND	0.11	0.08	ND	ND	IN	IN	ND
Steubenville—Weirton, OH—WV MSA	132,008	8	ND	ND	0.10	0.08	31	95	19.1	47	0.014
Stockton—Lodi, CA MSA	563,598	4	0.00	0.020	0.11	0.08	32	79	17.3	IN	ND
Sumter, SC MSA	104,646	ND	0.01	ND	ND	ND	ND	ND	ND	ND	ND
Syracuse, NY MSA	732,117	2	ND	ND	0.08	0.07	ND	ND	IN	IN	0.003

**Table A-15.** Maximum Air Quality Concentrations by Metropolitan Statistical Area, 2000 (continued)

Metropolitan Statistical Area Population	CO 2000 (ppm)	Pb 8-hr ( $\mu\text{g}/\text{m}^3$ )	$\text{NO}_2$ QMax (ppm)	$\text{O}_3$ AM (ppm)	$\text{O}_3$ 1-hr (ppm)	$\text{PM}_{10}$ 8-hr ( $\mu\text{g}/\text{m}^3$ )	$\text{PM}_{10}$ Wtd AM ( $\mu\text{g}/\text{m}^3$ )	$\text{PM}_{2.5}$ 24-hr ( $\mu\text{g}/\text{m}^3$ )	$\text{PM}_{2.5}$ Wtd AM ( $\mu\text{g}/\text{m}^3$ )	$\text{SO}_2$ 24-hr (ppm)	$\text{SO}_2$ AM (ppm)	24-hr
Tacoma, WA PMSA	700,820	6	ND	ND	0.08	0.06	28	58	13.0	49	ND	ND
Tallahassee, FL MSA	284,539	ND	ND	ND	0.09	0.08	18	46	IN	IN	ND	ND
Tampa—St. Petersburg—Clearwater, FL	2,395,997	3	2.010	0.013	0.11	0.08	33	73	13.5	43	0.006	0.031
Terre Haute, IN MSA	149,192	ND	ND	ND	0.09	0.08	25	54	15.7	37	0.012	0.055
Texarkana, TX—Texarkana, AR MSA	129,749	ND	ND	ND	ND	ND	ND	ND	14.7	31	ND	ND
Toledo, OH MSA	618,203	ND	0.33	ND	0.10	0.08	23	60	IN	IN	0.005	0.017
Topeka, KS MSA	169,871	ND	ND	ND	ND	ND	20	49	10.8	23	ND	ND
Trenton, NJ PMSA	350,761	ND	ND	0.016	0.11	0.10	26	55	14.7	43	ND	ND
Tucson, AZ MSA	843,746	5	ND	0.017	0.09	0.08	39	123	IN	IN	0.002	0.007
Tulsa, OK MSA	803,235	4	ND	0.015	0.12	0.09	25	58	12.1	30	0.006	0.027
Tuscaloosa, AL MSA	164,875	ND	ND	ND	ND	ND	IN	68	IN	IN	ND	ND
Tyler, TX MSA	174,706	ND	ND	0.006	0.10	0.09	ND	ND	ND	ND	ND	ND
Utica—Rome, NY MSA	299,896	ND	ND	ND	0.08	0.07	9	23	11.8	34	0.001	0.007
Vallejo—Fairfield—Napa, CA PMSA	518,821	5	ND	0.013	0.10	0.07	18	46	11.6	60	0.002	0.005
Ventura, CA PMSA	753,197	3	0.00	0.020	0.12	0.10	31	80	IN	IN	0.002	0.007
Victoria, TX MSA	84,088	ND	ND	ND	0.09	0.08	ND	ND	ND	ND	ND	ND
Vineland—Millville—Bridgehton, NJ PM	146,438	ND	ND	ND	0.12	0.09	ND	ND	ND	ND	0.004	0.017
Visalia—Tulare—Porterville, CA MSA	368,021	3	ND	0.018	0.12	0.11	53	127	23.7	103	ND	ND
Waco, TX MSA	213,517	ND	ND	ND	ND	ND	ND	ND	IN	IN	ND	ND
Washington, DC—MD—VA—WV PMSA	4,923,153	5	0.00	0.023	0.13	0.09	24	68	18.9	50	0.011	0.030
Waterbury, CT PMSA	228,984	ND	0.02	ND	ND	ND	21	41	IN	IN	0.004	0.017
Waterloo—Cedar Falls, IA MSA	128,012	ND	ND	ND	ND	ND	31	71	11.6	29	ND	ND
Wausau, WI MSA	125,834	ND	ND	ND	0.08	0.07	IN	IN	ND	ND	ND	ND
West Palm Beach—Boca Raton, FL MSA	1,131,184	3	ND	0.016	0.09	0.08	IN	38	9.4	27	0.002	0.008
Wheeling, WV—OH MSA	153,172	2	ND	ND	0.09	0.07	28	62	16.3	35	0.013	0.044
Wichita, KS MSA	545,220	6	ND	ND	0.09	0.08	26	87	12.7	29	ND	ND
Williamsport, PA MSA	120,044	ND	ND	ND	0.09	0.07	IN	IN	ND	ND	0.005	0.019
Wilmington—Newark, DE—MD PMSA	586,216	3	ND	IN	0.13	0.11	26	46	16.8	29	0.007	0.047
Wilmington, NC MSA	233,450	4	ND	ND	0.10	0.08	17	36	12.5	32	0.006	0.030
Worcester, MA—CT PMSA	511,389	3	ND	0.018	0.10	0.08	19	54	12.1	33	0.006	0.019
Yakima, WA MSA	222,581	3	ND	ND	ND	ND	27	58	IN	IN	ND	ND
Yolo, CA PMSA	168,660	1	ND	0.011	0.10	0.08	26	66	10.3	38	ND	ND
York, PA MSA	381,751	2	ND	0.018	0.11	0.09	IN	53	16.6	31	0.006	0.020
Youngstown—Warren, OH MSA	594,746	ND	ND	ND	0.10	0.08	27	128	15.9	35	0.007	0.024
Yuba City, CA MSA	139,149	4	ND	0.013	0.10	0.08	28	66	11.5	38	ND	ND
Yuma, AZ MSA	160,026	ND	ND	ND	0.08	0.06	IN	IN	ND	ND	ND	ND

CO — Highest second maximum non-overlapping 8-hour concentration (*Applicable NAAQS is 9 ppm*)Pb — Highest quarterly maximum concentration (*Applicable NAAQS is 1.5  $\mu\text{g}/\text{m}^3$* ) $\text{NO}_2$  — Highest arithmetic mean concentration (*Applicable NAAQS is 0.053 ppm*) $\text{O}_3$  (1-hr) — Highest second daily maximum 1-hour concentration (*Applicable NAAQS is 0.12 ppm*) $\text{O}_3$  (8-hr) — Highest fourth daily maximum 8-hour concentration (*Applicable NAAQS is 0.08 ppm*) $\text{PM}_{10}$  — Highest weighted annual mean concentration (*Applicable NAAQS is 50  $\mu\text{g}/\text{m}^3$* ) $\text{PM}_{2.5}$  — Highest second maximum 24-hour concentration (*Applicable NAAQS is 150  $\mu\text{g}/\text{m}^3$* ) $\text{SO}_2$  — Highest annual mean concentration (*Applicable NAAQS is 0.03 ppm*)ND — Highest second maximum 24-hour concentration (*Applicable NAAQS is 0.14 ppm*)

ND — Indicates data not available

IN — Indicates insufficient data to calculate summary statistic

Wtd — Weighted

AM — Annual mean

 $\mu\text{g}/\text{m}^3$  — Units are micrograms per cubic meter

PPM — Units are parts per million

**Table A-16.** Metropolitan Statistical Area Air Quality Trends, 1993–2002

Metropolitan Statistical Area	Trend	#Trend Sites	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	
<b>AKRON, OH</b>													
CO	2nd max (daily-non-overlapping 8-h)	down	1	3.1	5.3	3.3	3.4	3.2	2.6	2.5	2.4	2.7	1.8
SO <sub>2</sub>	2nd daily max	ns	1	0.056	0.042	0.046	0.042	0.072	0.044	0.065	0.044	0.044	0.06
	Annual mean	ns	1	0.015	0.012	0.009	0.01	0.012	0.01	0.011	0.009	0.01	0.01
Ozone	2nd highest daily max	ns	2	0.108	0.1	0.117	0.105	0.103	0.112	0.115	0.106	0.113	0.12
	4th highest daily max 8-h average	ns	2	0.093	0.086	0.092	0.091	0.087	0.097	0.097	0.085	0.096	0.1
PM <sub>2.5</sub> *	98th percentile	NA	2	ND	ND	ND	ND	ND	ND	41.45	37.15	44.1	41.9
	Weighted annual mean	NA	2	ND	ND	ND	ND	ND	ND	17.215	16.435	16.75	16.745
<b>ALBANY, GA</b>													
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	ND	37.7	36.1	30.5
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	ND	16.61	14.64	13.82
<b>ALBANY-SCHENECTADY-TROY, NY</b>													
CO	2nd max (daily-non-overlapping 8-h)	down	1	3.8	5.2	4.3	3.7	4.5	4.4	4.2	2.9	2.4	3.4
SO <sub>2</sub>	2nd daily max	down	1	0.028	0.037	0.023	0.025	0.02	0.016	0.016	0.02	0.024	0.019
	Annual mean	ns	1	0.006	0.007	0.003	0.004	0.003	0.004	0.003	0.004	0.005	0.004
Ozone	2nd highest daily max	ns	2	0.102	0.103	0.101	0.095	0.094	0.096	0.106	0.08	0.104	0.113
	4th highest daily max 8-h average	ns	2	0.083	0.078	0.08	0.077	0.077	0.075	0.082	0.066	0.086	0.088
PM <sub>2.5</sub> *	98th percentile	NA	2	ND	ND	ND	ND	ND	ND	ND	25.3	32.1	33.65
	Weighted annual mean	NA	2	ND	ND	ND	ND	ND	ND	ND	10.54	10.685	10.91
<b>ALBUQUERQUE, NM</b>													
CO	2nd max (daily-non-overlapping 8-h)	down	2	6.2	5	4.35	4.3	4.05	3.85	4.05	3.45	3.25	2.8
NO <sub>2</sub>	Annual mean	ns	1	0.024	0.023	0.018	0.022	0.019	0.016	0.016	0.017	0.017	0.019
Ozone	2nd highest daily max	ns	2	0.086	0.078	0.082	0.089	0.088	0.089	0.091	0.088	0.085	0.087
	4th highest daily max 8-h average	up	2	0.065	0.063	0.061	0.071	0.071	0.07	0.071	0.07	0.07	0.075
PM <sub>10</sub> *	90th percentile	down	2	43	36	36.5	30.5	30.5	28.5	28.5	29.5	27.5	39.5
	Weighted annual mean	down	2	26.85	22.6	22.4	20.5	19.7	19.2	19.3	18.65	18.7	24.55
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	ND	22.1	17.5	19.7
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	ND	6.54	6.39	6.31
<b>ALEXANDRIA, LA</b>													
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	ND	30.7	30.1	29.4
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	ND	14.29	13.35	12.15
<b>ALLENTOWN-BETHLEHEM-EASTON, PA</b>													
Lead	Maximum quarterly value	ns	1	0.181	0.131	0.074	0.083	0.093	0.12	0.071	0.111	0.071	0.088
CO	2nd max (daily-non-overlapping 8-h)	down	1	3.5	4.7	4.8	3.2	2.7	2.9	3.2	2.6	3.3	2.3
SO <sub>2</sub>	2nd daily max	down	1	0.034	0.053	0.028	0.035	0.03	0.03	0.03	0.027	0.028	0.028
	Annual mean	ns	1	0.007	0.008	0.006	0.006	0.008	0.008	0.006	0.007	0.007	0.008
NO <sub>2</sub>	Annual mean	down	1	0.02	0.021	0.018	0.018	0.016	0.016	0.015	0.013	0.017	0.014
Ozone	2nd highest daily max	up	1	0.104	0.105	0.109	0.114	0.116	0.106	0.125	0.112	0.126	0.114
	4th highest daily max 8-h average	ns	1	0.082	0.084	0.091	0.094	0.101	0.095	0.105	0.091	0.094	0.094
PM <sub>2.5</sub> *	98th percentile	NA	2	ND	ND	ND	ND	ND	ND	ND	31.4	37.75	42.85
	Weighted annual mean	NA	2	ND	ND	ND	ND	ND	ND	ND	12.37	13.975	15.215
<b>ALTOONA, PA</b>													
CO	2nd max (daily-non-overlapping 8-h)	down	1	2	2.4	1.7	1.9	1.5	1.2	1.6	1	1.1	0.7
SO <sub>2</sub>	2nd daily max	ns	1	0.052	0.058	0.037	0.033	0.046	0.032	0.03	0.045	0.042	0.032
	Annual mean	ns	1	0.009	0.01	0.008	0.008	0.01	0.008	0.007	0.006	0.009	0.007
NO <sub>2</sub>	Annual mean	ns	1	0.015	0.015	0.013	0.013	0.014	0.013	0.013	0.014	0.014	0.013
Ozone	2nd highest daily max	ns	1	0.1	0.106	0.112	0.101	0.114	0.114	0.111	0.104	0.107	0.102
	4th highest daily max 8-h average	ns	1	0.086	0.092	0.091	0.083	0.096	0.098	0.091	0.08	0.083	0.089
<b>ANCHORAGE, AK</b>													
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	ND	20.2	16.3	18.2
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	ND	6.05	6.17	6.92
<b>ANN ARBOR, MI</b>													
Ozone	2nd highest daily max	ns	1	0.09	0.094	0.11	0.104	0.089	0.097	0.09	0.094	0.103	0.1
	4th highest daily max 8-h average	ns	1	0.074	0.084	0.089	0.085	0.076	0.086	0.083	0.082	0.086	0.089
PM <sub>2.5</sub> *	98th percentile	NA	2	ND	ND	ND	ND	ND	ND	ND	31.7	39.1	31.1
	Weighted annual mean	NA	2	ND	ND	ND	ND	ND	ND	ND	13.73	13.995	14.215
<b>ASHEVILLE, NC</b>													
Ozone	2nd highest daily max	up	1	0.079	0.084	0.085	0.084	0.09	0.114	0.099	0.107	0.091	0.106
	4th highest daily max 8-h average	up	1	0.066	0.069	0.076	0.074	0.075	0.09	0.084	0.09	0.076	0.09
PM <sub>10</sub> *	90th percentile	ns	1	43	30	28	29	38	36	36	33	26	28
	Weighted annual mean	down	1	22.3	19	18.4	18.8	20.7	20.1	20.5	18.3	17.5	7.6
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	ND	31.6	30.5	29.4
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	ND	15.61	14.195	13.77

**Table A-16.** Metropolitan Statistical Area Air Quality Trends, 1993–2002 (continued)

Metropolitan Statistical Area	Trend	#Trend Sites	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
<b>ATHENS, GA</b>												
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	48.2	39.7	50.9	27.8
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	19.84	18.48	17.53	14.96
<b>ATLANTA, GA</b>												
Lead	Maximum quarterly value	ns	1	0.02	0.02	0.027	0.02	0.017	0.013	0.053	0.04	0.05
CO	2nd max (daily-non-overlapping 8-h)	down	1	4.9	5.3	4.5	3.7	4.3	4.1	4.1	3.2	4.1
SO <sub>2</sub>	2nd daily max	down	2	0.026	0.026	0.019	0.021	0.023	0.018	0.019	0.019	0.015
	Annual mean	down	2	0.006	0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.003
NO <sub>2</sub>	Annual mean	ns	1	0.025	0.023	0.019	0.027	0.025	0.024	0.024	0.023	0.019
Ozone	2nd highest daily max	ns	1	0.158	0.125	0.145	0.137	0.133	0.157	0.156	0.158	0.114
	4th highest daily max 8-h average	ns	1	0.122	0.089	0.118	0.11	0.104	0.126	0.124	0.113	0.084
PM <sub>10</sub> *	90th percentile	ns	1	57	53	56	48	61	53	56	52	45
	Weighted annual mean	ns	1	35.1	32.2	33.3	31.2	32.2	31.1	34.9	36	37.6
PM <sub>2.5</sub> *	98th percentile	NA	3	ND	ND	ND	ND	ND	46.05	51	37.867	33.167
	Weighted annual mean	NA	3	ND	ND	ND	ND	ND	22.035	19.987	17.79	15.93
<b>ATLANTIC-CAPE MAY, NJ</b>												
SO <sub>2</sub>	2nd daily max	down	1	0.014	0.019	0.011	0.014	0.011	0.01	0.009	0.013	0.01
	Annual mean	down	1	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
Ozone	2nd highest daily max	ns	1	0.115	0.099	0.116	0.108	0.131	0.118	0.118	0.108	0.105
	4th highest daily max 8-h average	ns	1	0.093	0.083	0.1	0.095	0.106	0.091	0.095	0.085	0.093
<b>AUGUSTA-AIKEN, GA-SC</b>												
Lead	Maximum quarterly value	down	1	0.012	0.011	0.006	0.004	0.009	0.02	0.003	0.006	0.004
NO <sub>2</sub>	Annual mean	ns	1	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.004
Ozone	2nd highest daily max	ns	3	0.1	0.093	0.1	0.098	0.104	0.116	0.106	0.106	0.096
	4th highest daily max 8-h average	ns	3	0.084	0.08	0.079	0.083	0.083	0.096	0.087	0.087	0.092
PM <sub>10</sub> *	90th percentile	ns	1	35	35	29	29	31	38	35	30	27
	Weighted annual mean	ns	1	22.1	21.3	18.7	18.7	21.4	22.4	21.1	20.5	16.7
PM <sub>2.5</sub> *	98th percentile	NA	2	ND	ND	ND	ND	ND	ND	42.3	34.9	28.45
	Weighted annual mean	NA	2	ND	ND	ND	ND	ND	ND	19.89	16.005	13.78
<b>AUSTIN-SAN MARCOS, TX</b>												
Ozone	2nd highest daily max	ns	1	0.091	0.102	0.105	0.098	0.089	0.115	0.102	0.107	0.091
	4th highest daily max 8-h average	ns	1	0.08	0.085	0.089	0.08	0.075	0.088	0.087	0.088	0.078
PM <sub>2.5</sub> *	98th percentile	NA	2	ND	ND	ND	ND	ND	ND	ND	24.5	20.85
	Weighted annual mean	NA	2	ND	ND	ND	ND	ND	ND	ND	10.925	9.625
<b>BAKERSFIELD, CA</b>												
Lead	Maximum quarterly value	down	1	0.013	0.013	0.013	0.012	0.011	0.015	0.01	0.011	0.008
CO	2nd max (daily-non-overlapping 8-h)	ns	1	3.6	3.6	3.6	3.6	2.7	2.8	5	5.2	3.2
NO <sub>2</sub>	Annual mean	down	2	0.02	0.02	0.018	0.019	0.016	0.016	0.018	0.016	0.012
Ozone	2nd highest daily max	ns	2	0.136	0.133	0.133	0.144	0.122	0.132	0.122	0.128	0.124
	4th highest daily max 8-h average	ns	2	0.103	0.104	0.106	0.117	0.098	0.11	0.103	0.105	0.102
PM <sub>10</sub> *	90th percentile	ns	1	103	103	103	87	69	103	109	87	111
	Weighted annual mean	ns	1	58.2	58.2	58.2	53.6	46.5	47	59.3	53.6	59.8
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	95.3	93.9	95.9
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	26.36	22.63	21.83
<b>BALTIMORE, MD</b>												
CO	2nd max (daily-non-overlapping 8-h)	down	1	4.9	5.7	4.2	3.9	4.8	3.3	4.6	3.4	3.3
SO <sub>2</sub>	2nd daily max	ns	1	0.024	0.029	0.022	0.028	0.025	0.021	0.02	0.024	0.026
	Annual mean	down	1	0.007	0.008	0.006	0.008	0.007	0.007	0.006	0.006	0.006
NO <sub>2</sub>	Annual mean	down	1	0.033	0.032	0.026	0.027	0.026	0.026	0.024	0.024	0.023
Ozone	2nd highest daily max	ns	3	0.135	0.121	0.135	0.112	0.134	0.12	0.135	0.111	0.122
	4th highest daily max 8-h average	ns	3	0.106	0.09	0.104	0.086	0.1	0.098	0.107	0.089	0.094
PM <sub>10</sub> *	90th percentile	down	4	49.5	48	46	40.75	43.75	45	39.5	44	41.75
	Weighted annual mean	down	4	29.375	29.225	27.475	25.9	27.058	26.542	24.975	26.225	24.95
PM <sub>2.5</sub> *	98th percentile	NA	5	ND	ND	ND	ND	ND	ND	ND	37.24	40.3
	Weighted annual mean	NA	5	ND	ND	ND	ND	ND	ND	ND	16.58	16.052
<b>BANGOR, ME</b>												
PM <sub>10</sub> *	90th percentile	ns	1	34	35	32	27	33	34	24	31	32
	Weighted annual mean	down	1	22.2	21.9	20	18.8	21.1	17.5	16.7	17.3	17.1
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	25.7	22.8	31.1
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	8.98	9.08	10.09
												10.44

**Table A-16.** Metropolitan Statistical Area Air Quality Trends, 1993–2002 (continued)

Metropolitan Statistical Area	Trend	#Trend Sites	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	
<b>BATON ROUGE, LA</b>													
CO	2nd max (daily-non-overlapping 8-h)	ns	1	9	4.6	3.4	4.7	5.4	3.9	4.5	3.6	4.8	3.7
SO <sub>2</sub>	2nd daily max	ns	2	0.023	0.021	0.026	0.022	0.023	0.027	0.022	0.023	0.021	0.027
	Annual mean	ns	2	0.006	0.006	0.005	0.006	0.006	0.006	0.005	0.005	0.005	0.006
NO <sub>2</sub>	Annual mean	ns	2	0.015	0.017	0.017	0.018	0.017	0.017	0.017	0.017	0.017	0.017
Ozone	2nd highest daily max	ns	3	0.117	0.121	0.12	0.118	0.122	0.123	0.117	0.127	0.106	0.112
	4th highest daily max 8-h average	ns	3	0.084	0.084	0.091	0.089	0.09	0.087	0.087	0.093	0.08	0.078
PM <sub>10</sub> *	90th percentile	up	1	29	40	40	40	45	48.5	52	52	55	37
	Weighted annual mean	up	1	18.2	26.8	25.9	26.4	27	30.35	33.7	31.8	32.6	26.4
PM <sub>2.5</sub> *	98th percentile	NA	2	ND	ND	ND	ND	ND	ND	32.05	35.55	30.2	23.8
	Weighted annual mean	NA	2	ND	ND	ND	ND	ND	ND	15.005	14.42	13.39	12.19
<b>BEAUMONT-PORT ARTHUR, TX</b>													
SO <sub>2</sub>	2nd daily max	ns	1	0.059	0.05	0.031	0.044	0.038	0.028	0.023	0.046	0.039	0.03
	Annual mean	down	1	0.008	0.007	0.006	0.006	0.006	0.004	0.003	0.005	0.005	0.004
NO <sub>2</sub>	Annual mean	down	2	0.009	0.01	0.01	0.01	0.01	0.008	0.01	0.008	0.009	0.008
Ozone	2nd highest daily max	ns	1	0.11	0.118	0.12	0.119	0.156	0.11	0.092	0.124	0.093	0.111
	4th highest daily max 8-h average	ns	1	0.085	0.082	0.088	0.08	0.09	0.073	0.064	0.087	0.073	0.085
<b>BELLINGHAM, WA</b>													
Ozone	2nd highest daily max	down	1	0.08	0.082	0.079	0.078	0.07	0.07	0.062	0.063	0.061	0.067
	4th highest daily max 8-h average	down	1	0.058	0.059	0.054	0.062	0.052	0.056	0.05	0.052	0.05	0.053
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	24.5	20.7	18.3	23.3
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	8.08	8.38	7.17	7.8
<b>BENTON HARBOR, MI</b>													
Ozone	2nd highest daily max	ns	1	0.093	0.116	0.115	0.125	0.118	0.136	0.107	0.107	0.117	0.118
	4th highest daily max 8-h average	ns	1	0.079	0.086	0.098	0.098	0.099	0.093	0.096	0.077	0.088	0.098
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	35.4	29.7	32.3	30.6
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	12.27	12.11	13.16	12.53
<b>BERGEN-PASSAIC, NJ</b>													
CO	2nd max (daily-non-overlapping 8-h)	down	1	4.5	5.3	5	3.6	3.65	3.7	3.8	3.4	2.6	2.6
SO <sub>2</sub>	2nd daily max	ns	1	0.023	0.028	0.023	0.018	0.018	0.018	0.02	0.02	0.018	0.018
	Annual mean	down	1	0.007	0.006	0.005	0.005	0.004	0.004	0.005	0.005	0.005	0.004
PM <sub>10</sub> *	90th percentile	ns	1	59	71	53	58	58.5	59	53	61	63	49
	Weighted annual mean	ns	1	36.5	40.9	34.6	37.4	38.25	39.1	34.3	36.5	36.3	28.8
PM <sub>2.5</sub> *	98th percentile	NA	2	ND	ND	ND	ND	ND	ND	39.65	35.9	34.775	33.95
	Weighted annual mean	NA	2	ND	ND	ND	ND	ND	ND	12.985	14.155	13.918	12.94
<b>BILLINGS, MT</b>													
SO <sub>2</sub>	2nd daily max	down	2	0.099	0.073	0.066	0.048	0.033	0.024	0.02	0.02	0.025	0.024
	Annual mean	down	2	0.023	0.017	0.013	0.008	0.006	0.006	0.005	0.005	0.006	0.006
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	16.6	24.7	23.4	14.2
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	7.98	8.07	7.55	6.56
<b>BILOXI-GULFPORT-PASCAGOULA, MS</b>													
SO <sub>2</sub>	2nd daily max	ns	2	0.026	0.018	0.018	0.03	0.021	0.019	0.02	0.022	0.011	0.021
	Annual mean	down	2	0.005	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.002
Ozone	2nd highest daily max	ns	2	0.094	0.105	0.104	0.103	0.103	0.113	0.107	0.121	0.097	0.09
	4th highest daily max 8-h average	ns	2	0.076	0.085	0.085	0.079	0.087	0.093	0.09	0.09	0.083	0.075
PM <sub>10</sub> *	90th percentile	ns	1	31	32	26	28	40	36	28	29	26	24
	Weighted annual mean	down	1	20.4	20.9	18.7	17.7	21.4	20.3	14.7	16.2	17.7	15.2
PM <sub>2.5</sub> *	98th percentile	NA	2	ND	ND	ND	ND	ND	ND	32.65	29.65	24.15	21.2
	Weighted annual mean	NA	2	ND	ND	ND	ND	ND	ND	14.93	12.825	11.215	10.24
<b>BINGHAMTON, NY</b>													
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	ND	25.3	29.6	38.7
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	ND	11.6	11.1	11.51
<b>BIRMINGHAM, AL</b>													
CO	2nd max (daily-non-overlapping 8-h)	down	1	7.1	6.9	6.4	4.9	5.9	4.4	4.4	3.7	6.3	3.7
SO <sub>2</sub>	2nd daily max	ns	1	0.05	0.037	0.016	0.015	0.018	0.032	0.057	0.057	0.019	0.015
	Annual mean	ns	1	0.009	0.007	0.006	0.004	0.006	0.007	0.009	0.01	0.004	0.004
Ozone	2nd highest daily max	ns	2	0.118	0.103	0.124	0.122	0.113	0.132	0.121	0.119	0.107	0.11
	4th highest daily max 8-h average	ns	2	0.091	0.081	0.1	0.094	0.085	0.104	0.096	0.093	0.084	0.087
PM <sub>10</sub> *	98th percentile	NA	2	ND	ND	ND	ND	ND	ND	52.7	45.5	36.25	35.9
	Weighted annual mean	NA	2	ND	ND	ND	ND	ND	ND	23.41	19.51	16.275	14.895
<b>BISMARCK, ND</b>													
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	23	14.3	17.1	15.5
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	7.61	6.62	6.68	6.38

**Table A-16.** Metropolitan Statistical Area Air Quality Trends, 1993–2002 (continued)

Metropolitan Statistical Area	Trend	#Trend Sites	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	
<b>BLOOMINGTON-NORMAL, IL</b>													
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	32.5	32.4	25.7	
Weighted annual mean	NA	1	ND	14.86	14.79	12.85							
<b>BOISE CITY, ID</b>													
CO	2nd max (daily-non-overlapping 8-h)	down	1	6.4	5.4	6.4	5	6.2	3.9	4.6	3.1	3.2	3.1
PM <sub>10</sub> *	90th percentile	ns	1	62	57	47	40	40	30	47	41	34	49
Weighted annual mean	down	1	32.9	31.5	24.8	23.7	24.1	17.7	23.7	23	22.9	25.7	
PM <sub>2.5</sub> *	98th percentile	NA	2	ND	ND	ND	ND	ND	ND	31.35	36.3	44.7	32.65
Weighted annual mean	NA	2	ND	ND	ND	ND	ND	ND	ND	9.045	9.24	10.37	9.69
<b>BOSTON, MA-NH</b>													
CO	2nd max (daily-non-overlapping 8-h)	down	2	3.6	4.3	3.55	3.25	3.3	2.9	3.9	2.35	2.45	1.6
SO <sub>2</sub>	2nd daily max	down	3	0.035	0.035	0.025	0.023	0.032	0.028	0.024	0.025	0.019	0.018
Annual mean	down	3	0.01	0.009	0.007	0.007	0.008	0.008	0.007	0.007	0.005	0.005	0.005
NO <sub>2</sub>	Annual mean	down	4	0.026	0.027	0.024	0.024	0.024	0.024	0.023	0.02	0.021	0.02
Ozone	2nd highest daily max	ns	1	0.102	0.121	0.119	0.105	0.105	0.113	0.115	0.085	0.122	0.145
4th highest daily max 8-h average	ns	1	0.078	0.09	0.094	0.083	0.091	0.1	0.088	0.07	0.1	0.1	
PM <sub>10</sub> *	90th percentile	ns	1	44	45	41	33	37	42	43	36	40	41
Weighted annual mean	ns	1	30.2	28.2	26.2	24.4	24.7	26.4	29.6	24.5	26.8	24.6	
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	33	27.2	31.5	29.3
Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	ND	11.31	11.35	12.13	10.06
<b>BOULDER-LONGMONT, CO</b>													
CO	2nd max (daily-non-overlapping 8-h)	down	1	6.4	6.2	4.7	5.5	5.4	4.7	3.7	3.1	3.5	3.2
Ozone	2nd highest daily max	ns	1	0.092	0.092	0.09	0.087	0.092	0.111	0.099	0.09	0.088	0.094
4th highest daily max 8-h average	ns	1	0.072	0.072	0.074	0.075	0.072	0.089	0.075	0.072	0.071	0.078	
PM <sub>10</sub> *	90th percentile	ns	1	35	35	35	30	31	36	35	32	36	37
Weighted annual mean	up	1	19.5	19.5	19.5	19.6	20.9	24.1	22.5	22.4	24.2	23.4	
PM <sub>2.5</sub> *	98th percentile	NA	2	ND	ND	ND	ND	ND	ND	21.4	20.1	22.85	22.95
Weighted annual mean	NA	2	ND	ND	ND	ND	ND	ND	ND	7.53	8.82	9.145	8.635
<b>BRAZORIA, TX</b>													
Ozone	2nd highest daily max	ns	1	0.132	0.112	0.148	0.11	0.137	0.111	0.161	0.136	0.113	0.136
4th highest daily max 8-h average	ns	1	0.092	0.085	0.113	0.079	0.085	0.09	0.112	0.079	0.084	0.095	
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	ND	25.3	24.9	22.7
Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	ND	ND	10.48	10.21	9.47
<b>BRIDGEPORT, CT</b>													
CO	2nd max (daily-non-overlapping 8-h)	down	1	3.7	5.8	4.9	3	4	2.8	3.2	2.4	2.7	2.5
SO <sub>2</sub>	2nd daily max	ns	1	0.035	0.049	0.028	0.023	0.031	0.024	0.023	0.024	0.029	0.029
Annual mean	down	1	0.01	0.01	0.007	0.006	0.007	0.007	0.006	0.006	0.006	0.007	0.005
Ozone	2nd highest daily max	ns	1	0.165	0.174	0.14	0.123	0.135	0.134	0.14	0.122	0.144	0.145
4th highest daily max 8-h average	ns	1	0.111	0.093	0.115	0.096	0.103	0.097	0.096	0.09	0.102	0.103	
PM <sub>10</sub> *	90th percentile	ns	1	43	46	37	32	34	33	30	37	36	34
Weighted annual mean	down	1	20.8	25.7	21.8	20.6	21.4	20.8	19.4	20.4	19.3	17.4	
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	31.1	41.5	40.1	32.9
Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	ND	13.06	13.89	13.73	12.7
<b>BROCKTON, MA</b>													
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	26	28.95	31.9	35.9
Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	ND	11.08	11.63	12.18	11.64
<b>BROWNSVILLE-HARLINGEN-SAN BENITO, TX M</b>													
CO	2nd max (daily-non-overlapping 8-h)	down	1	3.8	3.8	2.6	2.2	3.2	3.2	2.6	1.6	1.5	1.9
Ozone	2nd highest daily max	ns	1	0.034	0.085	0.084	0.077	0.08	0.081	0.075	0.08	0.074	0.077
4th highest daily max 8-h average	down	1	0.072	0.072	0.069	0.065	0.065	0.069	0.066	0.064	0.064	0.063	0.065
PM <sub>10</sub> *	90th percentile	ns	1	45	36	35	28	36	45	32	47	31	33
Weighted annual mean	ns	1	22.4	22.5	21.4	18.9	20.6	24.6	21.5	25.4	19.3	20	
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	ND	18.3	18	22.7
Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	ND	9.59	9.75	9.79	
<b>BUFFALO-NIAGARA FALLS, NY</b>													
CO	2nd max (daily-non-overlapping 8-h)	down	1	4.4	4.2	3.1	3.7	3.3	3.1	2.2	2	1.9	1.8
SO <sub>2</sub>	2nd daily max	ns	2	0.04	0.043	0.039	0.033	0.057	0.034	0.037	0.038	0.037	0.046
Annual mean	ns	2	0.01	0.011	0.008	0.008	0.009	0.008	0.008	0.008	0.008	0.008	0.008
NO <sub>2</sub>	Annual mean	ns	2	0.017	0.019	0.019	0.019	0.018	0.018	0.019	0.018	0.018	0.017
Ozone	2nd highest daily max	up	1	0.088	0.088	0.099	0.091	0.088	0.111	0.102	0.105	0.116	0.116
4th highest daily max 8-h average	up	1	0.072	0.079	0.082	0.074	0.073	0.094	0.09	0.085	0.102	0.105	
PM <sub>2.5</sub> *	98th percentile	NA	3	ND	ND	ND	ND	ND	ND	ND	30.033	39.767	38.333
Weighted annual mean	NA	3	ND	ND	ND	ND	ND	ND	ND	13.45	13.29	12.363	

**Table A-16.** Metropolitan Statistical Area Air Quality Trends, 1993–2002 (continued)

Metropolitan Statistical Area	Trend	#Trend Sites	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	
<b>BURLINGTON, VT</b>													
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	22.7	29.9	38	
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	8.32	9.74	9.89	
<b>CANTON-MASSILLON, OH</b>													
CO	2nd max (daily-non-overlapping 8-h)	ns	1	3.2	5.2	3	2.5	2.5	3.5	2.3	2.6	2.8	
SO <sub>2</sub>	2nd daily max	down	1	0.046	0.052	0.033	0.032	0.025	0.029	0.028	0.028	0.025	
	Annual mean	ns	1	0.01	0.009	0.006	0.006	0.007	0.007	0.007	0.008	0.007	
Ozone	2nd highest daily max	ns	2	0.104	0.098	0.111	0.096	0.096	0.114	0.105	0.099	0.105	
	4th highest daily max 8-h average	ns	2	0.09	0.084	0.093	0.085	0.083	0.096	0.09	0.084	0.089	
PM <sub>10</sub> *	90th percentile	ns	3	41	47.667	48.667	35.667	41.333	43.333	35.333	37.667	33	
	Weighted annual mean	down	3	24.633	27.233	27.567	23.967	24.067	24.433	23.133	23	21.733	
PM <sub>2.5</sub> *	98th percentile	NA	2	ND	ND	ND	ND	ND	ND	41.7	38.8	44.6	
	Weighted annual mean	NA	2	ND	ND	ND	ND	ND	ND	17.735	17.785	17.225	
<b>CASPER, WY</b>													
PM <sub>10</sub> *	90th percentile	ns	1	27	34	32	33	29	31	29	30	30	
	Weighted annual mean	ns	1	17.7	17.3	19.4	19.1	15.7	17.2	19.7	17	18.7	
<b>CEDAR RAPIDS, IA</b>													
CO	2nd max (daily-non-overlapping 8-h)	down	1	3.2	4.2	2.6	7.8	2.4	2.5	2	1.8	1.9	
SO <sub>2</sub>	2nd daily max	ns	2	0.017	0.016	0.013	0.011	0.012	0.01	0.016	0.008	0.015	
	Annual mean	ns	2	0.003	0.003	0.003	0.002	0.003	0.003	0.003	0.002	0.002	
PM <sub>10</sub> *	90th percentile	up	1	32	33	34	33	41	42	34	47	39	
	Weighted annual mean	up	1	20.7	21.5	21.4	20.9	25.7	26.4	23.3	31.6	26.7	
PM <sub>2.5</sub> *	98th percentile	NA	2	ND	ND	ND	ND	ND	ND	32.15	27.95	33.9	
	Weighted annual mean	NA	2	ND	ND	ND	ND	ND	ND	11.7	10.78	11.635	
<b>CHAMPAIGN-URBANA, IL</b>													
SO <sub>2</sub>	2nd daily max	ns	1	0.015	0.024	0.011	0.013	0.018	0.019	0.01	0.016	0.016	
	Annual mean	down	1	0.004	0.004	0.003	0.003	0.004	0.003	0.002	0.002	0.002	
Ozone	2nd highest daily max	ns	1	0.074	0.094	0.095	0.094	0.088	0.105	0.108	0.084	0.08	
	4th highest daily max 8-h average	ns	1	0.066	0.083	0.084	0.085	0.076	0.083	0.094	0.073	0.082	
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	27.8	29.3							
	Weighted annual mean	NA	1	ND	14.82	12.59							
<b>CHARLESTON-NORTH CHARLESTON, SC</b>													
Lead	Maximum quarterly value	ns	2	0.012	0.015	0.01	0.016	0.011	0.021	0.01	0.02	0.008	
CO	2nd max (daily-non-overlapping 8-h)	down	1	5.8	4	6.4	4.7	3.9	2.9	4	2.7	3	
SO <sub>2</sub>	2nd daily max	down	1	0.025	0.038	0.02	0.021	0.022	0.013	0.011	0.013	0.011	
	Annual mean	down	1	0.004	0.004	0.003	0.003	0.003	0.003	0.002	0.003	0.003	
NO <sub>2</sub>	Annual mean	ns	1	0.012	0.011	0.011	0.01	0.011	0.01	0.01	0.011	0.01	
Ozone	2nd highest daily max	ns	1	0.109	0.097	0.087	0.099	0.09	0.106	0.099	0.093	0.085	
	4th highest daily max 8-h average	ns	1	0.076	0.074	0.066	0.076	0.072	0.083	0.081	0.08	0.071	
PM <sub>10</sub> *	90th percentile	ns	2	40.5	38.5	30.5	32.5	31	40	31.5	35.5	32	
	Weighted annual mean	down	2	25.65	24.9	20.7	21.65	21	22.8	20.8	22.6	20.45	
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	30.3	25.8							
	Weighted annual mean	NA	1	ND	13.44	11.97							
<b>CHARLESTON, WV</b>													
PM <sub>10</sub> *	90th percentile	ns	1	52	49	40	41	32	35	37	44	41	
	Weighted annual mean	ns	1	29.2	28.1	26	24	21.1	21.4	21.9	26.5	24.8	
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	38.7	37	44.5	
	Weighted annual mean	NA	1	ND	17.89	18.2							
<b>CHARLOTTE-GASTONIA-ROCK HILL, NC-SC M</b>													
Maximum quarterly value		ns	1	0.016	0.032	0.013	0.01	0.007	0.021	0.018	0.042	0.008	
CO	2nd max (daily-non-overlapping 8-h)	down	1	5.8	5.8	4.7	4.4	6	5	4.3	4.7	4.3	
Ozone	2nd highest daily max	ns	2	0.126	0.114	0.114	0.127	0.115	0.13	0.126	0.123	0.118	
	4th highest daily max 8-h average	ns	2	0.098	0.089	0.094	0.099	0.098	0.107	0.104	0.094	0.093	
PM <sub>10</sub> *	90th percentile	ns	3	41.333	43.667	41.667	44	43.667	49.667	43.667	47.333	38.667	
	Weighted annual mean	ns	3	28.467	29.1	27.767	30.4	28.433	29.767	27.8	29.267	25.9	
PM <sub>2.5</sub> *	98th percentile	NA	2	ND	ND	ND	ND	ND	ND	37.5	32.95	31.85	
	Weighted annual mean	NA	2	ND	ND	ND	ND	ND	ND	17.58	16.54	15.16	
<b>CHARLOTTESVILLE, VA</b>													
PM <sub>10</sub> *	90th percentile	ns	1	40	33	41	35	36	33	32	43	32	
	Weighted annual mean	down	1	23.7	21.5	22.5	21.3	20.9	22.7	19.9	22.9	17.8	19.4

**Table A-16.** Metropolitan Statistical Area Air Quality Trends, 1993–2002 (continued)

Metropolitan Statistical Area	Trend	#Trend Sites	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
<b>CHATTANOOGA, TN-GA</b>												
Ozone	2nd highest daily max	ns	2	0.104	0.114	0.108	0.113	0.107	0.129	0.117	0.119	0.106
	4th highest daily max 8-h average	ns	2	0.088	0.088	0.09	0.088	0.088	0.1	0.096	0.097	0.085
PM <sub>10</sub> *	90th percentile	down	1	49	50	51	49	43	43	42	45	42
	Weighted annual mean	down	1	32.1	33.9	32.1	32.5	26.4	27	26.9	28.9	26.9
<b>CHEYENNE, WY</b>												
PM <sub>10</sub> *	90th percentile	ns	1	24	28	26	25	20	22	23	24	26
	Weighted annual mean	ns	1	15.5	17.8	14.6	15.1	12.9	13.9	14.9	15.7	15.7
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	12.4	13.2	12.2
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	5.57	5.58	5.03
<b>CHICAGO, IL</b>												
	Maximum quarterly value	down	2	0.076	0.077	0.061	0.059	0.059	0.063	0.042	0.085	0.038
CO	2nd max (daily-non-overlapping 8-h)	down	2	5.45	5.8	4.1	4.05	4.15	4.6	3.9	3.2	2.9
SO <sub>2</sub>	2nd daily max	ns	3	0.044	0.042	0.032	0.028	0.033	0.039	0.036	0.043	0.023
	Annual mean	ns	3	0.007	0.007	0.006	0.006	0.007	0.007	0.007	0.007	0.005
NO <sub>2</sub>	Annual mean	ns	1	0.031	0.032	0.032	0.031	0.034	0.032	0.032	0.032	0.032
Ozone	2nd highest daily max	ns	3	0.085	0.098	0.114	0.102	0.105	0.096	0.104	0.083	0.093
	4th highest daily max 8-h average	ns	3	0.068	0.076	0.085	0.077	0.082	0.078	0.089	0.067	0.073
PM <sub>10</sub> *	90th percentile	ns	1	67	67	67	61	59	59	66	68	72
	Weighted annual mean	ns	1	37.4	37.4	37.4	35.8	33.9	35.2	36.1	35.1	38
PM <sub>2.5</sub> *	98th percentile	NA	2	ND	ND	ND	ND	ND	ND	54.1	40.65	45.95
	Weighted annual mean	NA	2	ND	ND	ND	ND	ND	ND	21.85	19.265	20.12
<b>CHICO-PARADISE, CA</b>												
	Maximum quarterly value	ns	1	0.01	0.008	0.005	0.005	0.006	0.006	0.004	0.005	0.005
CO	2nd max (daily-non-overlapping 8-h)	ns	1	3.9	4.1	3.5	3.4	3.5	3.8	4	3.5	3.8
NO <sub>2</sub>	Annual mean	down	1	0.016	0.015	0.014	0.013	0.013	0.013	0.015	0.012	0.012
Ozone	2nd highest daily max	ns	1	0.09	0.097	0.091	0.096	0.074	0.103	0.11	0.091	0.094
	4th highest daily max 8-h average	ns	1	0.076	0.082	0.076	0.074	0.066	0.078	0.087	0.078	0.081
PM <sub>10</sub> *	90th percentile	ns	1	60	55	52	40	40	37	50	56	47
	Weighted annual mean	ns	1	27.2	33.3	26.3	25	25.9	22.3	28.6	27.4	29.2
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	ND	70	56
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	ND	16.26	13.01
<b>CINCINNATI, OH-KY-IN</b>												
CO	2nd max (daily-non-overlapping 8-h)	down	1	4.8	4.1	3.1	2.7	2.4	2.5	2.5	2.4	2.2
SO <sub>2</sub>	2nd daily max	ns	1	0.037	0.051	0.025	0.045	0.045	0.036	0.03	0.053	0.042
	Annual mean	ns	1	0.011	0.009	0.007	0.011	0.01	0.01	0.008	0.009	0.011
Ozone	2nd highest daily max	ns	1	0.104	0.118	0.114	0.112	0.11	0.121	0.105	0.11	0.106
	4th highest daily max 8-h average	ns	1	0.08	0.099	0.098	0.088	0.084	0.091	0.091	0.087	0.082
PM <sub>10</sub> *	90th percentile	down	2	54.5	47.5	53	41	44	43.75	42	43	40.5
	Weighted annual mean	down	2	28.75	28.25	29.9	25.6	25.65	25.675	24.7	25	23.3
PM <sub>2.5</sub> *	98th percentile	NA	4	ND	ND	ND	ND	ND	ND	35.433	37.2	40.3
	Weighted annual mean	NA	4	ND	ND	ND	ND	ND	ND	17	16.83	15.695
<b>CLARKSVILLE-HOPKINSVILLE, TN-KY</b>												
SO <sub>2</sub>	2nd daily max	down	1	0.058	0.037	0.019	0.023	0.026	0.02	0.016	0.018	0.017
	Annual mean	ns	1	0.01	0.007	0.006	0.006	0.005	0.006	0.005	0.006	0.007
Ozone	2nd highest daily max	ns	1	0.103	0.103	0.102	0.1	0.099	0.111	0.115	0.099	0.096
	4th highest daily max 8-h average	ns	1	0.082	0.092	0.086	0.079	0.082	0.086	0.092	0.081	0.082
PM <sub>10</sub> *	90th percentile	down	1	40	40	40	41	35	39	36	40	31
	Weighted annual mean	down	1	25.8	25.8	25.8	24.9	21.4	23.1	22.9	23.3	20.4
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	30.1	38.3	27.2
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	15.12	15.45	13.51
<b>CLEVELAND-LORAIN-ELYRIA, OH</b>												
	Maximum quarterly value	down	1	0.11	0.06	0.053	0.037	0.05	0.043	0.03	0.023	0.03
CO	2nd max (daily-non-overlapping 8-h)	down	1	4.6	7.7	8.2	4.9	4.5	3.9	3.9	3.2	2.2
SO <sub>2</sub>	2nd daily max	down	2	0.053	0.047	0.039	0.037	0.044	0.046	0.044	0.031	0.029
	Annual mean	down	2	0.014	0.012	0.01	0.01	0.01	0.01	0.01	0.008	0.008
NO <sub>2</sub>	Annual mean	down	1	0.028	0.028	0.027	0.026	0.028	0.027	0.025	0.023	0.024
Ozone	2nd highest daily max	ns	1	0.107	0.093	0.108	0.103	0.096	0.12	0.118	0.101	0.108
	4th highest daily max 8-h average	ns	1	0.084	0.074	0.088	0.089	0.084	0.098	0.092	0.081	0.086
PM <sub>10</sub> *	90th percentile	down	3	81	76.667	78	65	67.667	66.667	67.333	69	65 55.333
	Weighted annual mean	down	3	38.867	46.933	45.667	40.433	40.1	42.5	41.4	40.4	38.7 33.033
PM <sub>2.5</sub> *	98th percentile	NA	3	ND	ND	ND	ND	ND	ND	43.967	44.267	44.4 41.467
	Weighted annual mean	NA	3	ND	ND	ND	ND	ND	ND	19.16	19.573	18.33 17.287

**Table A-16.** Metropolitan Statistical Area Air Quality Trends, 1993–2002 (continued)

Metropolitan Statistical Area	Trend	#Trend Sites	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
<b>COLORADO SPRINGS, CO</b>												
CO	Maximum quarterly value	ns	1	0.013	0.014	0.01	0.004	0.004	0.012	0.009	0.011	0.009
CO	2nd max (daily-non-overlapping 8-h)	down	1	5.7	4.9	5.5	5	4.9	3.8	4.2	3	2.8
SO <sub>2</sub>	2nd daily max	down	1	0.011	0.01	0.01	0.008	0.007	0.007	0.008	0.006	0.006
NO <sub>2</sub>	Annual mean	down	1	0.003	0.004	0.003	0.002	0.002	0.002	0.002	0.002	0.002
PM <sub>10</sub> *	Annual mean	ns	1	0.008	0.008	0.008	0.007	0.008	0.007	0.007	0.009	0.008
PM <sub>10</sub> *	90th percentile	ns	3	40	36	35	31.333	28.333	30.667	27	30.333	32 34.333
PM <sub>2.5</sub> *	Weighted annual mean	ns	3	23.067	21.5	19.7	19.333	18.7	18.833	18.233	18.6	20.2 21.533
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	ND	14.6	15.5
PM <sub>2.5</sub> *	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	ND	7.58	7.72
<b>COLUMBIA, SC</b>												
SO <sub>2</sub>	2nd daily max	ns	2	0.013	0.013	0.011	0.015	0.015	0.016	0.013	0.012	0.014
NO <sub>2</sub>	Annual mean	ns	2	0.003	0.002	0.002	0.003	0.003	0.003	0.003	0.003	0.003
Ozone	Annual mean	ns	1	0.013	0.011	0.013	0.013	0.011	0.014	0.014	0.014	0.012
Ozone	2nd highest daily max	ns	1	0.112	0.103	0.104	0.088	0.108	0.116	0.117	0.113	0.104
Ozone	4th highest daily max 8-h average	ns	1	0.089	0.082	0.079	0.074	0.086	0.098	0.094	0.096	0.082
PM <sub>10</sub> *	90th percentile	ns	2	73.5	71	72	69	75.5	89.5	83.5	70.5	65.5
PM <sub>10</sub> *	Weighted annual mean	ns	2	41	40.65	40.6	38.75	42.75	48.6	47.55	40.6	39.75
PM <sub>2.5</sub> *	98th percentile	NA	2	ND	ND	ND	ND	ND	ND	36.6	29.5	25
PM <sub>2.5</sub> *	Weighted annual mean	NA	2	ND	ND	ND	ND	ND	ND	15.9	15.795	13.58
<b>COLUMBUS, GA-AL</b>												
Ozone	2nd highest daily max	ns	1	0.097	0.097	0.113	0.095	0.094	0.108	0.107	0.105	0.088
Ozone	4th highest daily max 8-h average	ns	1	0.075	0.075	0.089	0.08	0.08	0.091	0.089	0.087	0.073
PM <sub>10</sub> *	90th percentile	ns	1	37	44	46	33	39	45	40	44	39
PM <sub>10</sub> *	Weighted annual mean	ns	1	25.4	26.5	28.2	22.2	26.4	30.1	26.5	25.6	22.4
PM <sub>2.5</sub> *	98th percentile	NA	2	ND	ND	ND	ND	ND	ND	44.1	46.5	40.1
PM <sub>2.5</sub> *	Weighted annual mean	NA	2	ND	ND	ND	ND	ND	ND	19.885	18.975	15.695
<b>COLUMBUS, OH</b>												
CO	2nd max (daily-non-overlapping 8-h)	down	1	5.3	4.1	4.9	2.7	2.9	3.7	2.5	2.8	2.6
SO <sub>2</sub>	2nd daily max	ns	1	0.032	0.04	0.016	0.015	0.021	0.018	0.015	0.019	0.017
NO <sub>2</sub>	Annual mean	ns	1	0.007	0.006	0.003	0.004	0.005	0.005	0.004	0.004	0.004
Ozone	2nd highest daily max	ns	1	0.101	0.102	0.106	0.106	0.095	0.113	0.111	0.105	0.097
Ozone	4th highest daily max 8-h average	ns	1	0.083	0.088	0.088	0.087	0.083	0.094	0.095	0.079	0.095
PM <sub>10</sub> *	90th percentile	ns	1	50	46	53	39	63	70	62	54	52
PM <sub>10</sub> *	Weighted annual mean	ns	1	27.1	26.7	30.6	24.8	30.9	34.2	32.6	34.1	30.5
PM <sub>2.5</sub> *	98th percentile	NA	3	ND	ND	ND	ND	ND	ND	38.633	39.167	40.433
PM <sub>2.5</sub> *	Weighted annual mean	NA	3	ND	ND	ND	ND	ND	ND	17.603	17.597	17.083
<b>CORPUS CHRISTI, TX</b>												
Ozone	2nd highest daily max	ns	1	0.11	0.103	0.109	0.099	0.094	0.102	0.103	0.099	0.092
Ozone	4th highest daily max 8-h average	ns	1	0.08	0.079	0.089	0.083	0.077	0.082	0.084	0.083	0.077
PM <sub>10</sub> *	90th percentile	ns	1	57	48	47	37	50	57	62	54	41
PM <sub>10</sub> *	Weighted annual mean	ns	1	30.6	31.3	31.1	25.1	30.5	34.5	34.9	35.7	27.2
<b>CORVALLIS, OR</b>												
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	31.6	30.1	27.5
PM <sub>2.5</sub> *	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	7.05	7.88	7.26
<b>DALLAS, TX</b>												
CO	2nd max (daily-non-overlapping 8-h)	down	1	4.4	4.4	4.4	5.3	4.6	4.4	3.2	2.2	2.4
SO <sub>2</sub>	2nd daily max	ns	2	0.012	0.012	0.012	0.012	0.013	0.007	0.01	0.01	0.01
NO <sub>2</sub>	Annual mean	down	2	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.001
PM <sub>10</sub> *	90th percentile	ns	2	42.5	44	45	42	39.5	45.5	42.5	41.5	45.5
PM <sub>10</sub> *	Weighted annual mean	ns	2	25.1	25.6	26.65	25.7	24.8	27.7	26.7	27.05	27.2
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	ND	33	31.3
PM <sub>2.5</sub> *	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	ND	13.45	13.91
<b>DANBURY, CT</b>												
SO <sub>2</sub>	2nd daily max	ns	1	0.024	0.037	0.02	0.02	0.024	0.02	0.024	0.017	0.022
SO <sub>2</sub>	Annual mean	down	1	0.006	0.006	0.004	0.005	0.005	0.004	0.004	0.004	0.004
Ozone	2nd highest daily max	ns	1	0.14	0.125	0.134	0.11	0.138	0.115	0.151	0.124	0.133
Ozone	4th highest daily max 8-h average	ns	1	0.096	0.093	0.093	0.081	0.105	0.092	0.106	0.09	0.096
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	ND	32.9	35.2
PM <sub>2.5</sub> *	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	ND	12.73	13.2

**Table A-16.** Metropolitan Statistical Area Air Quality Trends, 1993–2002 (continued)

Metropolitan Statistical Area	Trend	#Trend Sites	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	
<b>DAVENPORT-MOLINE-ROCK ISLAND, IA-IL M</b>													
SO <sub>2</sub>	2nd daily max	down	1	0.022	0.034	0.02	0.014	0.02	0.018	0.014	0.014	0.01	0.013
	Annual mean	down	1	0.005	0.006	0.006	0.004	0.005	0.004	0.004	0.003	0.002	0.002
PM <sub>10</sub> *	90th percentile	down	1	79	92	108	89	90	68	80	70	63	70
	Weighted annual mean	down	1	46.5	59.9	66.8	50	49.3	37.9	43.5	40.2	36.2	42
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	29.7	30.3	33	29.5
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	13.14	12.75	13.21	12.25
<b>DAYTON-SPRINGFIELD, OH</b>													
CO	2nd max (daily-non-overlapping 8-h)	down	1	4	4.4	3.7	3	4	3.4	2.8	3.1	2.6	1.8
SO <sub>2</sub>	2nd daily max	ns	1	0.028	0.034	0.017	0.031	0.022	0.016	0.017	0.018	0.017	0.023
	Annual mean	ns	1	0.006	0.007	0.004	0.005	0.005	0.004	0.004	0.004	0.004	0.005
Ozone	2nd highest daily max	ns	3	0.109	0.114	0.116	0.113	0.107	0.117	0.116	0.1	0.097	0.11
	4th highest daily max 8-h average	ns	3	0.087	0.091	0.091	0.097	0.089	0.096	0.093	0.086	0.083	0.096
PM <sub>10</sub> *	90th percentile	ns	1	50	44	48	38	40	45	45	44	42	37
	Weighted annual mean	ns	1	24.9	25.5	27.3	22.7	24.5	24.5	23.6	26.7	25.2	23.8
<b>DAYTONA BEACH, FL</b>													
Ozone	2nd highest daily max	ns	2	0.094	0.084	0.083	0.079	0.086	0.094	0.087	0.087	0.085	0.085
	4th highest daily max 8-h average	ns	2	0.074	0.072	0.068	0.066	0.072	0.079	0.075	0.075	0.072	0.068
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	25.2	26	21.7	21.6
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	11.36	10.48	10	8.75
<b>DECATUR, IL</b>													
SO <sub>2</sub>	2nd daily max	ns	1	0.025	0.03	0.024	0.022	0.021	0.02	0.027	0.025	0.025	0.021
	Annual mean	down	1	0.006	0.007	0.005	0.005	0.006	0.005	0.006	0.005	0.005	0.004
Ozone	2nd highest daily max	ns	1	0.077	0.095	0.097	0.1	0.087	0.094	0.102	0.092	0.078	0.094
	4th highest daily max 8-h average	ns	1	0.065	0.079	0.08	0.094	0.077	0.078	0.087	0.077	0.071	0.085
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	ND	30.9	34.7	33.9
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	ND	15.04	14.27	14.1
<b>DENVER, CO</b>													
	Maximum quarterly value	ns	1	0.108	0.067	0.054	0.05	0.03	0.106	0.078	0.149	0.103	0.114
CO	2nd max (daily-non-overlapping 8-h)	down	1	10.4	8.2	9.5	7.3	5.5	4.7	5	5.4	4.1	3.7
SO <sub>2</sub>	2nd daily max	ns	1	0.035	0.034	0.019	0.024	0.026	0.023	0.024	0.025	0.026	0.023
	Annual mean	down	1	0.009	0.007	0.005	0.006	0.006	0.004	0.005	0.005	0.005	0.005
NO <sub>2</sub>	Annual mean	up	1	0.034	0.035	0.035	0.033	0.034	0.035	0.036	0.036	0.037	0.035
Ozone	2nd highest daily max	ns	2	0.103	0.098	0.098	0.103	0.095	0.115	0.099	0.101	0.102	0.105
	4th highest daily max 8-h average	ns	2	0.079	0.076	0.077	0.081	0.076	0.087	0.079	0.081	0.08	0.086
PM <sub>10</sub> *	90th percentile	ns	1	23	20	19	22	18	23	20	24	24	24
	Weighted annual mean	ns	1	14.3	12.7	9.7	11.6	9.4	12.6	11.8	13.1	13.1	13.1
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	ND	27.9	37.2	24.5
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	ND	10.78	11.81	10.1
<b>DES MOINES, IA</b>													
CO	2nd max (daily-non-overlapping 8-h)	down	1	5.4	4.9	5.7	3.6	3	4.1	3.5	2.7	2.3	2.7
Ozone	2nd highest daily max	ns	1	0.08	0.073	0.081	0.082	0.075	0.065	0.069	0.071	0.067	0.071
	4th highest daily max 8-h average	ns	1	0.04	0.052	0.071	0.064	0.063	0.056	0.059	0.061	0.06	0.059
PM <sub>10</sub> *	90th percentile	ns	2	52	57.5	53	56	65	55.5	50.75	48	57	40.5
	Weighted annual mean	ns	2	31.7	32.8	30.1	32.8	34	30.3	28.15	28.4	33.2	24.3
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	28.3	32.3	29.9	31.9
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	11.39	10.56	10.61	10.55
<b>DETROIT, MI</b>													
	Maximum Quarterly Value	ns	2	0.038	0.047	0.047	0.034	0.063	0.043	0.056	0.03	0.031	0.031
CO	2nd max (daily-non-overlapping 8-h)	down	2	4.15	5.8	5	3.55	3.15	3.15	3.85	3.9	2.5	3
SO <sub>2</sub>	2nd daily max	up	2	0.031	0.038	0.039	0.032	0.037	0.036	0.044	0.038	0.04	0.042
	Annual mean	ns	2	0.008	0.008	0.007	0.007	0.007	0.008	0.009	0.007	0.007	0.007
NO <sub>2</sub>	Annual mean	ns	1	0.022	0.025	0.022	0.02	0.026	0.023	0.024	0.024	0.023	0.021
Ozone	2nd highest daily max	ns	2	0.102	0.128	0.114	0.099	0.115	0.115	0.112	0.091	0.112	0.11
	4th highest daily max 8-h average	ns	2	0.076	0.095	0.081	0.085	0.085	0.092	0.09	0.076	0.091	0.094
PM <sub>10</sub> *	90th percentile	down	3	63.667	71.667	65.667	53	55.667	63.667	61.667	59	57	52.333
	Weighted annual mean	ns	3	37.567	43.5	38.7	33.6	33.2	33.833	35.733	35.333	34.867	30.733
PM <sub>2.5</sub> *	98th percentile	NA	5	ND	ND	ND	ND	ND	ND	31.9	40.34	42.64	40.36
	Weighted annual mean	NA	5	ND	ND	ND	ND	ND	ND	12.72	16.54	16.924	16.428
<b>DOTHAN, AL</b>													
PM <sub>10</sub> *	90th percentile	down	1	52	47	46	36	45	41	43	48	37	31
	Weighted annual mean	ns	1	26.4	27.8	28.1	22.3	24.9	27.3	28.8	24.4	22.5	21
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	39.7	34.6	26.6	26.7
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	19.58	15.42	14	13.03

**Table A-16.** Metropolitan Statistical Area Air Quality Trends, 1993–2002 (continued)

Metropolitan Statistical Area	Trend	#Trend Sites	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	
<b>DOVER, DE</b>													
Ozone	2nd highest daily max	down	1	0.137	0.137	0.137	0.11	0.124	0.131	0.12	0.126	0.117	0.112
	4th highest daily max 8-h average	ns	1	0.097	0.097	0.097	0.088	0.099	0.102	0.097	0.093	0.091	0.094
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	28.5	34.4	34.4	37.1
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	12.47	13.2	13.05	12.38
<b>DULUTH-SUPERIOR, MN-WI</b>													
CO	2nd max (daily-non-overlapping 8-h)	down	1	4.1	4.3	4.5	4.5	3.2	3.7	2.9	2.1	2.5	2.1
PM <sub>10</sub> *	90th percentile	ns	2	36	33.5	35	31	32.5	31	37	44	34.5	36.5
	Weighted annual mean	ns	2	21.4	20.65	20.5	20.05	19.85	21.3	21.75	23.9	22.25	21.05
PM <sub>2.5</sub> *	98th percentile	NA	2	ND	ND	ND	ND	ND	ND	25.3	25.2	23.45	23.25
	Weighted annual mean	NA	2	ND	ND	ND	ND	ND	ND	8.64	8.385	8.48	7.855
<b>DUTCHESS COUNTY, NY</b>													
Ozone	2nd highest daily max	ns	1	0.139	0.117	0.115	0.109	0.111	0.108	0.12	0.105	0.109	0.152
	4th highest daily max 8-h average	ns	1	0.099	0.087	0.093	0.089	0.089	0.089	0.093	0.079	0.091	0.111
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	ND	30.8	27.6	31.2
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	ND	11.55	11.17	10.74
<b>EL PASO, TX</b>													
CO	Maximum quarterly value	down	1	0.229	0.14	0.192	0.153	0.108	0.144	0.145	0.099	0.099	0.099
	2nd max (daily-non-overlapping 8-h)	down	1	10.6	7.6	7.5	9.1	7.2	8.3	5.7	7.3	5.8	4.8
Ozone	2nd highest daily max	ns	1	0.098	0.115	0.126	0.123	0.114	0.122	0.108	0.114	0.116	0.127
	4th highest daily max 8-h average	ns	1	0.059	0.075	0.084	0.078	0.071	0.088	0.071	0.08	0.075	0.089
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	20.7	23	23.8	29.5
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	9.24	9.18	9.34	10.61
<b>ELKHART-GOSHEN, IN</b>													
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	ND	38.6	37.5	35.2
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	ND	15.67	15.7	14.98
<b>ELMIRA, NY</b>													
SO <sub>2</sub>	2nd daily max	ns	1	0.019	0.023	0.014	0.016	0.015	0.011	0.015	0.012	0.015	0.013
	Annual mean	ns	1	0.005	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.004	0.004
Ozone	2nd highest daily max	up	1	0.09	0.084	0.088	0.088	0.081	0.094	0.092	0.089	0.094	0.098
	4th highest daily max 8-h average	ns	1	0.08	0.074	0.076	0.072	0.073	0.082	0.082	0.073	0.082	0.089
<b>ENID, OK</b>													
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	ND	24.8	28.7	27.8
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	ND	10.24	10.73	9.7
<b>ERIE, PA</b>													
SO <sub>2</sub>	2nd daily max	down	1	0.072	0.076	0.05	0.066	0.035	0.068	0.043	0.041	0.043	0.037
	Annual mean	ns	1	0.011	0.01	0.009	0.011	0.009	0.01	0.01	0.008	0.01	0.011
NO <sub>2</sub>	Annual mean	down	1	0.014	0.015	0.015	0.015	0.015	0.014	0.015	0.012	0.012	0.012
Ozone	2nd highest daily max	ns	1	0.107	0.101	0.105	0.1	0.103	0.122	0.112	0.095	0.104	0.114
	4th highest daily max 8-h average	ns	1	0.081	0.09	0.088	0.083	0.087	0.098	0.096	0.078	0.089	0.098
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	ND	28.2	37.5	42.9
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	ND	13.99	13.83	13.21
<b>EUGENE-SPRINGFIELD, OR</b>													
CO	2nd max (daily-nonoverlapping 8-h)	down	1	5.9	6.4	5.7	5.7	5.2	4.6	5	4.3	4.1	4.2
Ozone	2nd highest daily max	ns	1	0.072	0.082	0.077	0.111	0.073	0.089	0.068	0.056	0.077	0.08
	4th highest daily max 8-h average	ns	1	0.054	0.068	0.06	0.084	0.056	0.073	0.056	0.047	0.061	0.067
PM <sub>10</sub> *	90th percentile	down	2	72	53	49	37	41.5	36	36.5	36.5	40	36.5
	Weighted annual mean	down	2	27.9	23.65	21.5	18.6	20.1	17	17.9	18.4	18.35	19.4
PM <sub>2.5</sub> *	98th percentile	NA	2	ND	ND	ND	ND	ND	ND	46.65	45.75	46.9	50.8
	Weighted annual mean	NA	2	ND	ND	ND	ND	ND	ND	10.65	11.28	11.605	11.88
<b>EVANSVILLE-HENDERSON, IN-KY</b>													
CO	2nd max (daily-nonoverlapping 8-h)	down	2	4.35	4.05	3.2	3.05	3.65	3.05	2.95	2.3	2.4	2.3
SO <sub>2</sub>	2nd daily max	ns	3	0.06	0.055	0.051	0.064	0.062	0.057	0.074	0.062	0.05	0.051
	Annual mean	ns	3	0.014	0.012	0.01	0.01	0.01	0.012	0.012	0.011	0.01	0.01
NO <sub>2</sub>	Annual mean	ns	1	0.017	0.018	0.017	0.017	0.016	0.018	0.016	0.016	0.016	0.016
Ozone	2nd highest daily max	ns	1	0.094	0.096	0.108	0.092	0.086	0.103	0.109	0.092	0.09	0.09
	4th highest daily max 8-h average	ns	1	0.071	0.079	0.089	0.081	0.075	0.078	0.081	0.078	0.072	0.072
PM <sub>10</sub> *	90th percentile	down	3	50	51	51.333	39.333	43	44.333	43.333	41.333	39.667	38.333
	Weighted annual mean	down	3	29.733	31.333	29.833	24.833	25.667	27.367	25.167	24.5	24.733	24.267
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	ND	37.3	36.4	46.7
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	ND	16.08	15.57	15.36

**Table A-16.** Metropolitan Statistical Area Air Quality Trends, 1993–2002 (continued)

Metropolitan Statistical Area	Trend	#Trend Sites	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
<b>FARGO-MOORHEAD, ND-MN</b>												
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	26.7	26.4	23.9	21
Weighted annual mean		NA	1	ND	ND	ND	ND	ND	9.39	7.71	8.43	7.35
<b>FAYETTEVILLE, NC</b>												
Ozone	2nd highest daily max	ns	1	0.115	0.098	0.1	0.099	0.098	0.112	0.12	0.101	0.108
4th highest daily max 8-h average		ns	1	0.093	0.084	0.081	0.086	0.085	0.093	0.1	0.086	0.08
PM <sub>10</sub> *	90th percentile	ns	1	41	40	35	39	41	41	39	39	39
Weighted annual mean		ns	1	27.3	25.1	23.3	25.3	24.8	26.5	24.4	28	28
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	33.5	33	27	30.6
Weighted annual mean		NA	1	ND	ND	ND	ND	ND	16.19	15.86	14.28	13.64
<b>FAYETTEVILLE-SPRINGDALE-ROGERS, AR</b>												
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	31.4	25	25.8
Weighted annual mean		NA	1	ND	ND	ND	ND	ND	ND	12.5	11.56	10.76
<b>FITCHBURG-LEOMINSTER, MA</b>												
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	34.5	21.1	23.35
Weighted annual mean		NA	1	ND	ND	ND	ND	ND	ND	9.39	9.79	9.595
<b>FLAGSTAFF, AZ-UT</b>												
Ozone	2nd highest daily max	ns	1	0.07	0.081	0.075	0.082	0.076	0.076	0.086	0.082	0.074
4th highest daily max 8-h average		ns	1	0.066	0.073	0.069	0.073	0.072	0.072	0.076	0.071	0.07
<b>FLINT, MI</b>												
Maximum quarterly value		ns	1	0.016	0.011	0.014	0.012	0.011	0.015	0.014	0.011	0.012
SO <sub>2</sub>	2nd daily max	down	1	0.017	0.017	0.016	0.012	0.012	0.014	0.011	0.015	0.014
Annual mean		down	1	0.005	0.004	0.003	0.002	0.002	0.002	0.003	0.004	0.002
Ozone	2nd highest daily max	ns	1	0.106	0.09	0.097	0.113	0.094	0.104	0.108	0.086	0.108
4th highest daily max 8-h average		ns	1	0.068	0.077	0.082	0.089	0.081	0.089	0.089	0.072	0.091
PM <sub>10</sub> *	90th percentile	ns	1	40	36	37	31	33	37	33	32	32
Weighted annual mean		down	1	23.9	20.1	21.1	20.2	20.2	20.6	19	18.6	20
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	32.8	32.2	38
Weighted annual mean		NA	1	ND	ND	ND	ND	ND	ND	12.02	12.95	13.12
<b>FLORENCE, AL</b>												
SO <sub>2</sub>	2nd daily max	down	1	0.022	0.022	0.018	0.019	0.02	0.019	0.017	0.017	0.016
Annual mean		down	1	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	35.6	32.4	28.7
Weighted annual mean		NA	1	ND	ND	ND	ND	ND	ND	17.32	15.62	12.82
<b>FLORENCE, SC</b>												
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	31.7	31.3	24.3
Weighted annual mean		NA	1	ND	ND	ND	ND	ND	ND	14.37	14.4	13.11
<b>FORT COLLINS-LOVELAND, CO</b>												
CO	2nd max (daily-nonoverlapping 8-h)	down	1	6.6	6	5.2	5.1	5.2	4.1	5.1	3.8	3
Ozone	2nd highest daily max	ns	2	0.091	0.095	0.089	0.092	0.088	0.092	0.085	0.093	0.086
4th highest daily max 8-h average		ns	2	0.068	0.072	0.072	0.069	0.07	0.076	0.069	0.074	0.069
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	ND	19.7	24.7
Weighted annual mean		NA	1	ND	ND	ND	ND	ND	ND	ND	8.3	8.63
<b>FORT LAUDERDALE, FL</b>												
CO	2nd max (daily-nonoverlapping 8-h)	down	2	4.45	4.65	5.15	3.65	3.7	2.8	4.05	3.2	3.55
SO <sub>2</sub>	2nd daily max	ns	1	0.011	0.013	0.008	0.008	0.011	0.017	0.015	0.026	0.016
Annual mean		ns	1	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.002	0.002
NO <sub>2</sub>	Annual mean	ns	1	0.01	0.009	0.011	0.01	0.01	0.01	0.011	0.01	0.009
Ozone	2nd highest daily max	ns	2	0.102	0.097	0.097	0.102	0.091	0.1	0.102	0.091	0.1
4th highest daily max 8-h average		ns	2	0.081	0.071	0.066	0.066	0.071	0.077	0.073	0.073	0.074
PM <sub>10</sub> *	90th percentile	ns	3	28.667	23.333	23.667	27.667	25.333	30.333	23	24	29.333
Weighted annual mean		ns	3	18.967	17.2	16.767	17.967	17.733	19.967	17.3	17.1	18.033
PM <sub>2.5</sub> *	98th percentile	NA	2	ND	ND	ND	ND	ND	ND	25.2	24.55	21.6
Weighted annual mean		NA	2	ND	ND	ND	ND	ND	ND	9.23	9.41	8.485
<b>FORT MYERS-CAPE CORAL, FL</b>												
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	21.2	24.5	21.9
Weighted annual mean		NA	1	ND	ND	ND	ND	ND	ND	10.12	9.55	9.21
<b>FORT PIERCE-PORT ST. LUCIE, FL</b>												
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	18.7	23.4	21
Weighted annual mean		NA	1	ND	ND	ND	ND	ND	ND	9.63	10.06	8.99
<b>FORT SMITH, AR-OK</b>												
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	27.3	29.5	26.2
Weighted annual mean		NA	1	ND	ND	ND	ND	ND	ND	13.54	13.74	11.75

**Table A-16.** Metropolitan Statistical Area Air Quality Trends, 1993–2002 (continued)

Metropolitan Statistical Area	Trend	#Trend Sites	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	
<b>FORT WAYNE, IN</b>													
CO	2nd max (daily-nonoverlapping 8-h)	ns	1	4.7	4.7	4.7	2.7	6.3	3	3.3	3.9	2.6	3.3
Ozone	2nd highest daily max	ns	2	0.093	0.113	0.109	0.1	0.095	0.103	0.1	0.093	0.091	0.11
	4th highest daily max 8-h average	ns	2	0.081	0.094	0.094	0.091	0.087	0.089	0.089	0.086	0.078	0.095
PM <sub>10</sub> *	90th percentile	ns	1	36	43	44	28	28	39	31	32	33	34
	Weighted annual mean	ns	1	22.9	23.5	23.9	17.2	19.6	23.7	17	20.2	18	17.9
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	35.5	33.6	32	32.1
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	13.33	15.65	14.16	14.88
<b>FORT WORTH-ARLINGTON, TX</b>													
CO	2nd max (daily-nonoverlapping 8-h)	down	1	3.5	2.7	3.3	2.8	2.8	2.5	2.6	2.1	2	2.1
NO <sub>2</sub>	Annual mean	ns	1	0.013	0.017	0.017	0.015	0.016	0.013	0.017	0.012	0.012	0.013
Ozone	2nd highest daily max	ns	2	0.113	0.133	0.141	0.129	0.123	0.126	0.145	0.118	0.125	0.13
	4th highest daily max 8-h average	ns	2	0.093	0.101	0.104	0.094	0.092	0.099	0.102	0.094	0.098	0.101
PM <sub>2.5</sub> *	98th percentile	NA	2	ND	ND	ND	ND	ND	ND	22.7	27.8	26.75	34.7
	Weighted annual mean	NA	2	ND	ND	ND	ND	ND	ND	12.58	12.36	12.18	12.275
<b>FRESNO, CA</b>													
	Maximum quarterly value	down	1	0.025	0.02	0.015	0.008	0.011	0.013	0.008	0.01	0.01	0.009
CO	2nd max (daily-nonoverlapping 8-h)	down	4	4.175	4.925	4.225	4.15	3.5	3.5	3.4	3.35	3.1	2.8
NO <sub>2</sub>	Annual mean	down	4	0.021	0.02	0.02	0.019	0.018	0.018	0.021	0.018	0.018	0.018
Ozone	2nd highest daily max	ns	4	0.14	0.127	0.134	0.14	0.126	0.155	0.129	0.134	0.134	0.142
	4th highest daily max 8-h average	ns	4	0.107	0.098	0.102	0.107	0.101	0.118	0.102	0.105	0.106	0.111
PM <sub>10</sub> *	90th percentile	ns	3	91.667	66	83.333	63.333	81	62	96.333	76	78.333	76.333
	Weighted annual mean	ns	3	46.9	42.567	44.567	37.333	42.767	34.833	48.1	41.933	46.733	44.633
PM <sub>2.5</sub> *	98th percentile	NA	2	ND	ND	ND	ND	ND	ND	89.6	85.75	74.75	64.1
	Weighted annual mean	NA	2	ND	ND	ND	ND	ND	ND	23.73	20.115	19.1	18.905
<b>GAINESVILLE, FL</b>													
PM <sub>10</sub> *	90th percentile	ns	1	30	33	27	23	32	29	29	31	29	29
	Weighted annual mean	ns	1	19.5	18.5	17.5	17.1	20.7	19.9	19	19.9	19.7	19.7
PM <sub>2.5</sub> *	98th percentile	NA	2	ND	ND	ND	ND	ND	ND	25.9	26.5	23.25	24.55
	Weighted annual mean	NA	2	ND	ND	ND	ND	ND	ND	11.28	11.505	10.215	9.88
<b>GALVESTON-TEXAS CITY, TX</b>													
SO <sub>2</sub>	2nd daily max	down	1	0.056	0.052	0.089	0.067	0.053	0.039	0.04	0.037	0.045	0.025
	Annual mean	ns	1	0.005	0.006	0.006	0.014	0.006	0.004	0.007	0.004	0.005	0.004
Ozone	2nd highest daily max	ns	1	0.176	0.125	0.198	0.107	0.175	0.146	0.172	0.127	0.113	0.109
	4th highest daily max 8-h average	ns	1	0.114	0.088	0.14	0.08	0.097	0.095	0.108	0.09	0.076	0.083
<b>GARY, IN</b>													
	Maximum quarterly value	ns	1	0.044	0.052	0.044	0.064	0.043	0.04	0.077	0.108	0.017	0.032
CO	2nd max (daily-nonoverlapping 8-h)	down	1	5	4.6	3.7	2.8	3.8	3.2	3.1	3.2	3.2	2.6
SO <sub>2</sub>	2nd daily max	down	1	0.044	0.055	0.039	0.031	0.032	0.055	0.028	0.025	0.03	0.013
	Annual mean	down	1	0.008	0.008	0.008	0.007	0.008	0.009	0.007	0.006	0.006	0.004
Ozone	2nd highest daily max	ns	2	0.1	0.11	0.118	0.112	0.113	0.109	0.11	0.094	0.106	0.122
	4th highest daily max 8-h average	ns	2	0.083	0.088	0.097	0.094	0.093	0.085	0.095	0.081	0.087	0.098
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	43.8	43.6	50.2	39.5
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	15.87	17.38	18.11	16.43
<b>GOLDSBORO, NC</b>													
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	40.6	34.4	29.2	28.8
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	15.42	15.77	14.65	13.18
<b>GRAND FORKS, ND-MN</b>													
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	26.3	24.6	22.5	22.5
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	10.23	8.18	8.28	8.28
<b>GRAND JUNCTION, CO</b>													
CO	2nd max (daily-nonoverlapping 8-h)	down	1	6.1	6	5.4	5.8	5.4	5.3	4.7	4.1	3.7	3.6
PM <sub>10</sub> *	90th percentile	ns	1	31	32	31	30	28	29	31	37	35	39
	Weighted annual mean	ns	1	21.5	21.4	21.7	20.6	19.6	19.8	20	23.6	23.6	26.5
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	18.3	18.4	20.7	18.2
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	6.93	7.21	7.86	8.1

**Table A-16.** Metropolitan Statistical Area Air Quality Trends, 1993–2002 (continued)

Metropolitan Statistical Area	Trend	#Trend Sites	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	
<b>GRAND RAPIDS-MUSKEGON-HOLLAND, MI</b>													
CO	2nd max (daily-nonoverlapping 8-h)	ns	1	3.2	4	4.6	3.3	2.4	2.9	3.5	2.6	3.1	2.8
SO <sub>2</sub>	2nd daily max	down	1	0.012	0.013	0.011	0.011	0.008	0.008	0.006	0.01	0.007	0.007
	Annual mean	down	1	0.003	0.003	0.002	0.002	0.002	0.002	0.001	0.002	0.002	0.002
Ozone	2nd highest daily max	ns	4	0.103	0.113	0.129	0.122	0.107	0.109	0.111	0.112	0.112	0.116
	4th highest daily max 8-h average	ns	4	0.083	0.088	0.101	0.09	0.086	0.088	0.093	0.076	0.089	0.095
PM <sub>10</sub> *	90th percentile	down	2	39	46	40	35.5	32	38.5	36	31	36.5	34
	Weighted annual mean	down	2	21.85	26.9	20.95	20.25	18.65	21.25	18.9	18.65	20.4	18.45
PM <sub>2.5</sub> *	98th percentile	NA	3	ND	ND	ND	ND	ND	ND	36.733	33.567	37	36.2
	Weighted annual mean	NA	3	ND	ND	ND	ND	ND	ND	12.977	12.917	13.693	13.113
<b>GREAT FALLS, MT</b>													
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	23	17.3	17.6	
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	6.13	5.39	5.25	
<b>GREELEY, CO</b>													
CO	2nd max (daily-nonoverlapping 8-h)	down	1	5.8	5.2	5.3	7	4.8	4.4	3.4	3.8	3.7	3.7
Ozone	2nd highest daily max	ns	1	0.087	0.087	0.093	0.097	0.095	0.102	0.092	0.093	0.105	0.064
	4th highest daily max 8-h average	ns	1	0.063	0.071	0.072	0.07	0.069	0.075	0.069	0.069	0.074	0.057
PM <sub>10</sub> *	90th percentile	ns	1	40	37	34	30	30	30	29	34	33	34
	Weighted annual mean	ns	1	22.6	23.1	19.9	17.7	17.8	16.4	17.5	20.5	20.8	21
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	ND	20.4	35.7	25.9
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	ND	8.93	10.61	9.22
<b>GREEN BAY, WI</b>													
SO <sub>2</sub>	2nd daily max	ns	1	0.018	0.015	0.017	0.011	0.017	0.011	0.011	0.016	0.013	0.013
	Annual mean	down	1	0.003	0.003	0.004	0.003	0.003	0.003	0.003	0.004	0.003	0.002
Ozone	2nd highest daily max	ns	1	0.085	0.085	0.112	0.105	0.091	0.098	0.097	0.09	0.107	0.094
	4th highest daily max 8-h average	ns	1	0.069	0.069	0.083	0.091	0.073	0.077	0.085	0.071	0.088	0.084
PM <sub>2.5</sub> *	98th percentile	NA	2	ND	ND	ND	ND	ND	ND	33.4	32.1	33.85	28.45
	Weighted annual mean	NA	2	ND	ND	ND	ND	ND	ND	10.81	10.96	11.35	10.75
<b>GREENSBORO-WINSTON-SALEM-HIGH POINT, NC</b>													
SO <sub>2</sub>	2nd daily max	ns	1	0.022	0.021	0.025	0.026	0.023	0.023	0.02	0.019	0.016	0.024
	Annual mean	down	1	0.006	0.007	0.007	0.007	0.007	0.006	0.005	0.005	0.005	0.005
NO <sub>2</sub>	Annual mean	down	1	0.017	0.017	0.016	0.016	0.017	0.017	0.016	0.016	0.016	0.014
Ozone	2nd highest daily max	ns	2	0.112	0.104	0.114	0.106	0.11	0.117	0.112	0.11	0.109	0.124
	4th highest daily max 8-h average	up	2	0.089	0.084	0.09	0.082	0.089	0.099	0.098	0.09	0.09	0.102
PM <sub>10</sub> *	90th percentile	ns	2	40.5	35.5	37.5	37.5	38	41	38.5	36.5	36.5	34.5
	Weighted annual mean	down	2	24.8	23.95	25.25	24.65	24.2	25.2	23.9	22.3	22.7	21.95
PM <sub>2.5</sub> *	98th percentile	NA	3	ND	ND	ND	ND	ND	ND	36.8	35.633	35.267	32.533
	Weighted annual mean	NA	3	ND	ND	ND	ND	ND	ND	16.897	17.04	15.667	14.88
<b>GREENVILLE, NC</b>													
Ozone	2nd highest daily max	ns	1	0.108	0.086	0.098	0.097	0.122	0.109	0.109	0.109	0.091	0.106
	4th highest daily max 8-h average	ns	1	0.091	0.074	0.082	0.086	0.097	0.089	0.093	0.082	0.077	0.091
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	ND	30.5	27.8	30.6
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	ND	13.92	12.52	12.28
<b>GREENVILLE-SPARTANBURG-ANDERSON, SC MS</b>													
Maximum quarterly value		ns	1	0.02	0.018	0.012	0.011	0.01	0.011	0.012	0.021	0.01	0.01
CO	2nd max (daily-nonoverlapping 8-h)	down	1	5.4	5.5	5.3	4.6	5.6	4.3	4.8	3.7	3.4	3.3
SO <sub>2</sub>	2nd daily max	ns	1	0.012	0.016	0.007	0.012	0.014	0.015	0.009	0.011	0.013	0.014
	Annual mean	up	1	0.003	0.003	0.001	0.002	0.003	0.003	0.003	0.003	0.003	0.003
NO <sub>2</sub>	Annual mean	down	1	0.018	0.018	0.017	0.016	0.017	0.017	0.017	0.016	0.015	0.016
Ozone	2nd highest daily max	ns	2	0.116	0.101	0.117	0.103	0.103	0.118	0.12	0.107	0.104	0.112
	4th highest daily max 8-h average	up	2	0.085	0.085	0.09	0.086	0.087	0.099	0.1	0.087	0.089	0.093
PM <sub>10</sub> *	90th percentile	down	2	41	42.5	45.5	46.5	38.5	39.5	40.5	38.5	35.5	35
	Weighted annual mean	down	2	25.95	26.4	30.6	31.3	23.5	25	25.5	23.95	22.15	21.15
<b>HAGERSTOWN, MD</b>													
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	ND	39.9	41.6	42.7
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	ND	15.55	14.17	14.9

**Table A-16.** Metropolitan Statistical Area Air Quality Trends, 1993–2002 (continued)

Metropolitan Statistical Area	Trend	#Trend Sites	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
<b>HAMILTON-MIDDLETOWN, OH</b>												
SO <sub>2</sub>	2nd daily max	ns	1	0.042	0.046	0.02	0.026	0.035	0.022	0.021	0.023	0.027 0.034
	Annual mean	ns	1	0.008	0.008	0.005	0.006	0.006	0.006	0.007	0.006	0.006 0.006
Ozone	2nd highest daily max	ns	1	0.121	0.103	0.121	0.107	0.104	0.109	0.117	0.095	0.107 0.115
	4th highest daily max 8-h average	ns	1	0.086	0.087	0.089	0.092	0.088	0.089	0.096	0.082	0.083 0.1
PM <sub>10</sub> *	90th percentile	down	3	62.667	54	57.333	43	55	53.667	48	51	46 39.333
	Weighted annual mean	down	3	31.567	30.667	33.433	29.133	30.933	30.733	28.1	29.867	26.567 24.233
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	37	38.1	41.7 40.7
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	18.82	16.96	16.43 16.83
<b>HARRISBURG-LEBANON-CARLISLE, PA</b>												
SO <sub>2</sub>	2nd daily max	down	1	0.025	0.04	0.02	0.022	0.022	0.021	0.021	0.024	0.015 0.013
	Annual mean	down	1	0.006	0.007	0.005	0.006	0.007	0.006	0.005	0.005	0.005 0.005
NO <sub>2</sub>	Annual mean	down	1	0.015	0.022	0.02	0.021	0.019	0.019	0.018	0.017	0.018 0.016
Ozone	2nd highest daily max	ns	1	0.118	0.118	0.099	0.096	0.112	0.116	0.114	0.101	0.099 0.126
	4th highest daily max 8-h average	ns	1	0.095	0.091	0.084	0.078	0.084	0.097	0.095	0.079	0.086 0.098
PM <sub>10</sub> *	90th percentile	down	1	45	40	37	38	37	35	34	33	39 35
	Weighted annual mean	down	1	27.5	23.6	21.7	23.4	22.2	20.4	20.3	20.2	21.9 19.6
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	39.7	45.8	47.7 42.7
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	14.39	15.69	16.5 14.5
<b>HARTFORD, CT</b>												
CO	2nd max (daily-nonoverlapping 8-h)	down	1	7.2	7.9	7	6.45	5.9	7.1	5.5	7.3	4.5 5.1
SO <sub>2</sub>	2nd daily max	down	1	0.023	0.031	0.023	0.022	0.025	0.019	0.019	0.021	0.023 0.018
	Annual mean	down	1	0.006	0.007	0.005	0.006	0.005	0.005	0.004	0.004	0.005 0.004
NO <sub>2</sub>	Annual mean	ns	1	0.018	0.02	0.017	0.016	0.018	0.02	0.018	0.017	0.02 0.017
Ozone	2nd highest daily max	ns	3	0.146	0.133	0.134	0.098	0.143	0.12	0.138	0.106	0.137 0.14
	4th highest daily max 8-h average	ns	3	0.1	0.099	0.097	0.082	0.099	0.09	0.097	0.082	0.099 0.104
PM <sub>10</sub> *	90th percentile	ns	1	22	25	19	23	27	22	23	22	20 20
	Weighted annual mean	down	1	12.9	14.3	12.1	12.4	13.8	13.7	11.9	11.3	10.8 10.5
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	29.5	32.3	32.8 31.5
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	10.79	10.67	12.27 11.28
<b>HATTIESBURG, MS</b>												
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	ND	29.6	30 31.5
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	ND	14.93	13.56 12.78
<b>HICKORY-MORGANTON-LENOIR, NC</b>												
Ozone	2nd highest daily max	up	1	0.092	0.092	0.093	0.094	0.099	0.133	0.106	0.107	0.099 0.111
	4th highest daily max 8-h average	up	1	0.075	0.075	0.077	0.078	0.08	0.096	0.082	0.091	0.088 0.095
PM <sub>10</sub> *	90th percentile	ns	1	44	39	36	37	37	37	43	33	33 37
	Weighted annual mean	down	1	26.4	26.3	23.2	24.1	23.7	23.1	25	22	21 22
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	34	34.2	32 33.5
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	17.43	17.35	15.98 15.16
<b>HONOLULU, HI</b>												
CO	2nd max (daily-nonoverlapping 8-h)	down	2	2	1.8	1.85	1.9	1.7	1.45	1.25	1.3	1.15 1
SO <sub>2</sub>	2nd daily max	down	2	0.011	0.007	0.004	0.008	0.004	0.008	0.003	0.005	0.004 0.003
	Annual mean	ns	2	0.002	0.001	0.001	0.002	0.002	0.002	0.001	0.001	0.001 0.001
NO <sub>2</sub>	Annual mean	ns	1	0.004	0.004	0.003	0.003	0.003	0.003	0.003	0.004	0.004 0.004
Ozone	2nd highest daily max	ns	1	0.055	0.055	0.056	0.047	0.053	0.056	0.054	0.048	0.051 0.053
	4th highest daily max 8-h average	down	1	0.049	0.052	0.051	0.041	0.047	0.049	0.048	0.044	0.042 0.043
PM <sub>10</sub> *	90th percentile	ns	2	24.5	22.5	21	23	21.5	23	18.5	23	24 24
	Weighted annual mean	down	2	17.7	16.25	16.1	17.05	16.1	16	13.95	15.6	16.05 15.8
<b>HOUMA, LA</b>												
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	ND	28.7	26.2 17.8
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	ND	12.38	10.89 9.33
<b>HOUSTON, TX</b>												
CO	2nd max (daily-nonoverlapping 8-h)	down	2	4.75	4.15	3.8	4.85	3.45	3.45	3.35	3.2	3.35 2.8
SO <sub>2</sub>	2nd daily max	down	2	0.023	0.02	0.02	0.024	0.018	0.019	0.016	0.021	0.017 0.016
	Annual mean	down	2	0.005	0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.004 0.003
NO <sub>2</sub>	Annual mean	ns	2	0.016	0.017	0.019	0.019	0.018	0.016	0.018	0.016	0.017 0.015
Ozone	2nd highest daily max	ns	2	0.166	0.154	0.173	0.154	0.203	0.185	0.144	0.161	0.139 0.137
	4th highest daily max 8-h average	ns	2	0.09	0.099	0.114	0.113	0.113	0.119	0.102	0.106	0.097 0.096
PM <sub>10</sub> *	90th percentile	ns	2	56	62	59.5	46.5	59.5	75	57.5	57	48 47
	Weighted annual mean	ns	2	34.6	37.6	33.85	30.5	34.65	40.25	35.6	35.4	30.65 28.5
PM <sub>2.5</sub> *	98th percentile	NA	2	ND	ND	ND	ND	ND	ND	ND	25.6	32.2 31.35
	Weighted annual mean	NA	2	ND	ND	ND	ND	ND	ND	ND	12.745	12.4 12.925

**Table A-16.** Metropolitan Statistical Area Air Quality Trends, 1993–2002 (continued)

Metropolitan Statistical Area	Trend	#Trend Sites	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
<b>HUNTINGTON-ASHLAND, WV-KY-OH</b>												
SO <sub>2</sub>	2nd daily max	down	3	0.05	0.048	0.04	0.031	0.034	0.031	0.029	0.038	0.028
	Annual mean	down	3	0.012	0.01	0.01	0.009	0.009	0.009	0.01	0.008	0.008
Ozone	2nd highest daily max	ns	1	0.119	0.12	0.122	0.113	0.124	0.136	0.115	0.092	0.11
	4th highest daily max 8-h average	ns	1	0.099	0.097	0.092	0.086	0.086	0.105	0.096	0.081	0.087
PM <sub>10</sub> *	90th percentile	down	1	61	65	64	52	62	53	68	50	47
	Weighted annual mean	ns	1	33.1	39	38.4	37	39	35.2	39.1	32.7	30
PM <sub>2.5</sub> *	98th percentile	NA	2	ND	ND	ND	ND	ND	35.25	36.8	41.15	42.55
	Weighted annual mean	NA	2	ND	ND	ND	ND	ND	16.175	16.63	16.385	16.135
<b>HUNTSVILLE, AL</b>												
CO	2nd max (daily-nonoverlapping 8-h)	down	1	4	3.5	3.6	3	3.1	3.3	4.3	2.3	2.3
Ozone	2nd highest daily max	ns	1	0.112	0.107	0.102	0.096	0.096	0.118	0.106	0.111	0.088
	4th highest daily max 8-h average	ns	1	0.087	0.075	0.08	0.081	0.086	0.092	0.093	0.088	0.08
PM <sub>10</sub> *	90th percentile	ns	3	38.667	34.333	34.333	32.667	37	36.667	36.667	37.333	35.333
	Weighted annual mean	ns	3	23.267	23.233	22.1	20.7	20.867	22.633	23.4	24	21.033
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	30.9	41.5	29.7	34.1
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	15.61	16.28	14.6	13.8
<b>INDIANAPOLIS, IN</b>												
CO	2nd max (daily-nonoverlapping 8-h)	down	2	4	3.45	3.85	2.75	3.15	2.65	2.4	3.3	2.35
SO <sub>2</sub>	2nd daily max	ns	3	0.04	0.041	0.022	0.027	0.025	0.022	0.021	0.023	0.022
	Annual mean	down	3	0.009	0.008	0.006	0.006	0.006	0.005	0.006	0.006	0.005
NO <sub>2</sub>	Annual mean	ns	1	0.018	0.019	0.02	0.018	0.015	0.019	0.018	0.017	0.018
Ozone	2nd highest daily max	ns	2	0.094	0.107	0.108	0.118	0.101	0.105	0.106	0.097	0.092
	4th highest daily max 8-h average	ns	2	0.079	0.09	0.091	0.093	0.086	0.09	0.095	0.08	0.103
PM <sub>10</sub> *	90th percentile	down	2	54	57.5	49.5	34	40.5	43.5	37	38.5	32.5
	Weighted annual mean	down	2	31.4	32	29.6	22	24.05	25.45	21	22.3	20.7
PM <sub>2.5</sub> *	98th percentile	NA	2	ND	ND	ND	ND	ND	39.2	38.725	41.8	40.75
	Weighted annual mean	NA	2	ND	ND	ND	ND	ND	17.32	17.618	17.855	17.56
<b>IOWA CITY, IA</b>												
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	32.4	28.4	34.5
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	12.32	10.93	11.67
<b>JACKSON, MS</b>												
CO	2nd max (daily-nonoverlapping 8-h)	down	1	6.2	5.1	4.4	4.8	3.8	3.7	5	3.2	4.2
SO <sub>2</sub>	2nd daily max	ns	1	0.01	0.008	0.007	0.008	0.007	0.008	0.007	0.006	0.006
	Annual mean	ns	1	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
Ozone	2nd highest daily max	ns	2	0.089	0.086	0.09	0.093	0.095	0.105	0.103	0.096	0.091
	4th highest daily max 8-h average	ns	2	0.073	0.073	0.076	0.078	0.077	0.084	0.083	0.08	0.076
PM <sub>10</sub> *	90th percentile	ns	1	42	35	39	35	44	48	38	36	33
	Weighted annual mean	ns	1	22.8	22.1	21.9	21.8	25.6	28	24.9	23.5	20.6
PM <sub>2.5</sub> *	98th percentile	NA	3	ND	ND	ND	ND	ND	ND	33.65	35.633	29.2
	Weighted annual mean	NA	3	ND	ND	ND	ND	ND	ND	16.195	15.233	13.45
<b>JACKSON, TN</b>												
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	37.5	30.4	27.4
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	16.22	14.99	13.56
<b>JACKSONVILLE, FL</b>												
CO	Maximum quarterly value	ns	1	0.022	0.017	0.027	0.023	0.015	0.017	0.017	0.029	0.017
SO <sub>2</sub>	2nd max (daily-nonoverlapping 8-h)	down	1	4.8	3.4	3.7	3.1	2.8	2.8	3.9	2.6	2.7
	2nd daily max	ns	2	0.032	0.041	0.033	0.024	0.025	0.03	0.028	0.032	0.027
	Annual mean	ns	2	0.004	0.004	0.004	0.004	0.003	0.004	0.004	0.005	0.004
NO <sub>2</sub>	Annual mean	ns	1	0.015	0.014	0.016	0.015	0.014	0.015	0.016	0.015	0.013
Ozone	2nd highest daily max	ns	1	0.103	0.087	0.1	0.086	0.085	0.1	0.103	0.09	0.092
	4th highest daily max 8-h average	ns	1	0.08	0.069	0.068	0.073	0.073	0.08	0.08	0.071	0.072
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	ND	30.1	26.2
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	ND	12.1	10.94
<b>JACKSONVILLE, NC</b>												
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	35.7	27.7	26
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	12.7	12.28	11.45

**Table A-16.** Metropolitan Statistical Area Air Quality Trends, 1993–2002 (continued)

Metropolitan Statistical Area	Trend	#Trend Sites	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
<b>JAMESTOWN, NY</b>												
SO <sub>2</sub>	2nd daily max	down	1	0.032	0.033	0.023	0.027	0.019	0.019	0.022	0.023	0.02 0.016
	Annual mean	down	1	0.007	0.006	0.005	0.005	0.005	0.005	0.005	0.005	0.005 0.004
Ozone	2nd highest daily max	ns	1	0.104	0.094	0.104	0.097	0.101	0.112	0.101	0.101	0.097 0.109
	4th highest daily max 8-h average	ns	1	0.081	0.08	0.089	0.081	0.085	0.095	0.087	0.083	0.085 0.094
PM <sub>10</sub> *	90th percentile	ns	1	26	32	32	28	32	35	32	29	25 21
	Weighted annual mean	down	1	15.4	14.4	15.7	15.1	15.4	16.9	14.1	13.7	11.7 12.4
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	ND	30.6	34.2 37.8
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	ND	11.38	11.06 11.25
<b>JANESVILLE-BELoit, WI</b>												
Ozone	2nd highest daily max	down	1	0.108	0.108	0.103	0.103	0.097	0.1	0.105	0.098	0.093 0.098
	4th highest daily max 8-h average	ns	1	0.077	0.077	0.087	0.085	0.085	0.084	0.093	0.083	0.084 0.087
<b>JERSEY CITY, NJ</b>												
CO	2nd max (daily-nonoverlapping 8-h)	down	1	5.6	5.9	6.2	4.9	4.3	4.1	3.9	3.8	3 2.8
SO <sub>2</sub>	2nd daily max	down	2	0.03	0.036	0.026	0.027	0.025	0.022	0.024	0.024	0.027 0.022
	Annual mean	down	2	0.009	0.009	0.007	0.008	0.008	0.007	0.007	0.007	0.008 0.006
NO <sub>2</sub>	Annual mean	ns	1	0.027	0.026	0.026	0.027	0.026	0.027	0.026	0.026	0.026 0.023
Ozone	2nd highest daily max	ns	1	0.131	0.118	0.125	0.12	0.119	0.118	0.139	0.103	0.132 0.109
	4th highest daily max 8-h average	ns	1	0.103	0.095	0.104	0.087	0.105	0.089	0.106	0.082	0.091 0.09
PM <sub>10</sub> *	90th percentile	ns	1	54	62	48	51	50	42	43	50	53 50
	Weighted annual mean	down	1	34.3	38.8	30.8	32.8	30.6	26.9	27.8	30.6	29.3 28.3
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	46	39.5	34.1 34.3
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	16.13	16.83	14.1 14.35
<b>JOHNSON CITY-KINGSPORT-BRISTOL, TN-VA</b>												
CO	2nd max (daily-nonoverlapping 8-h)	down	1	6.5	3.4	3.1	3	3.5	3.4	2.8	2.2	2.1 1.9
SO <sub>2</sub>	2nd daily max	ns	1	0.045	0.05	0.038	0.05	0.042	0.039	0.038	0.043	0.037 0.044
	Annual mean	ns	1	0.01	0.011	0.01	0.012	0.011	0.011	0.01	0.011	0.01 0.008
NO <sub>2</sub>	Annual mean	down	1	0.017	0.017	0.018	0.018	0.018	0.017	0.016	0.015	0.015 0.014
Ozone	2nd highest daily max	ns	1	0.125	0.103	0.114	0.099	0.111	0.115	0.106	0.109	0.11 0.109
	4th highest daily max 8-h average	ns	1	0.088	0.083	0.091	0.082	0.082	0.096	0.086	0.092	0.085 0.093
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	ND	42.2	37.1 34
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	ND	17.17	15.4 14.3
<b>JOHNSTOWN, PA</b>												
CO	2nd max (daily-nonoverlapping 8-h)	down	1	4.2	4.1	3.5	4.8	2.7	3.1	2.8	2	2.1 2.6
SO <sub>2</sub>	2nd daily max	down	1	0.049	0.08	0.042	0.034	0.03	0.027	0.025	0.026	0.031 0.025
	Annual mean	down	1	0.015	0.014	0.012	0.011	0.009	0.008	0.009	0.007	0.008 0.007
NO <sub>2</sub>	Annual mean	down	1	0.017	0.018	0.015	0.018	0.016	0.015	0.015	0.015	0.014 0.012
Ozone	2nd highest daily max	up	1	0.099	0.094	0.101	0.098	0.104	0.124	0.107	0.104	0.106 0.106
	4th highest daily max 8-h average	ns	1	0.083	0.083	0.09	0.083	0.092	0.098	0.09	0.086	0.09 0.088
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	ND	31	34.1 40.1 46.6
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	ND	14.78	15.34 15.85 16.09
<b>JONESBORO, AR</b>												
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	ND	27.9	28.6 31.5
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	ND	14.64	12.69 11.16
<b>JOPLIN, MO</b>												
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	ND	26.7	29.5 28.7 31.5
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	ND	13.11	13.49 14.48 13.9
<b>KALAMAZOO-BATTLE CREEK, MI</b>												
PM <sub>10</sub> *	90th percentile	ns	1	40	44	50	33	38	47	44	49	49 49
	Weighted annual mean	ns	1	24	25.9	26	22	22.6	26.7	22.5	26.3	26.3 26.3
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	38	35.5	40 32.3
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	ND	14.89	15.1 15.63 14.78
<b>KANSAS CITY, MO-KS</b>												
SO <sub>2</sub>	2nd daily max	ns	1	0.025	0.033	0.023	0.033	0.021	0.01	0.009	0.039	0.009 0.015
	Annual mean	ns	1	0.002	0.002	0.002	0.003	0.003	0.002	0.002	0.004	0.002 0.002
NO <sub>2</sub>	Annual mean	ns	1	0.009	0.008	0.009	0.009	0.009	0.009	0.009	0.009	0.008 0.008
Ozone	2nd highest daily max	ns	1	0.114	0.112	0.131	0.114	0.121	0.133	0.111	0.115	0.106 0.105
	4th highest daily max 8-h average	ns	1	0.082	0.09	0.099	0.087	0.098	0.095	0.082	0.091	0.079 0.087
PM <sub>10</sub> *	90th percentile	ns	1	43	47	41	58	38	47	41	47	47 53
	Weighted annual mean	ns	1	30.7	33.8	19.1	32.6	26.2	29.7	27.8	29.1	31.6 36.2
PM <sub>2.5</sub> *	98th percentile	NA	3	ND	ND	ND	ND	ND	ND	ND	28.1	27.333 29.567 29.867
	Weighted annual mean	NA	3	ND	ND	ND	ND	ND	ND	ND	12.68	12.647 13.333 13.213

**Table A-16.** Metropolitan Statistical Area Air Quality Trends, 1993–2002 (continued)

Metropolitan Statistical Area	Trend	#Trend Sites	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	
<b>KENOSHA, WI</b>													
Ozone	2nd highest daily max	ns	2	0.114	0.119	0.119	0.13	0.111	0.121	0.121	0.097	0.12	0.14
	4th highest daily max 8-h average	ns	2	0.085	0.088	0.103	0.084	0.087	0.09	0.097	0.084	0.098	0.113
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	34.2	27.2	33	31.7
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	12.35	11.38	12.7	11.57
<b>KNOXVILLE, TN</b>													
CO	2nd max (daily-nonoverlapping 8-h)	down	1	4.6	4.3	4.1	3.3	4.8	3.9	3.8	3.1	3	3
SO <sub>2</sub>	2nd daily max	ns	1	0.063	0.057	0.053	0.058	0.048	0.038	0.056	0.06	0.089	0.07
	Annual mean	ns	1	0.009	0.01	0.01	0.009	0.008	0.007	0.009	0.01	0.01	0.011
Ozone	2nd highest daily max	ns	2	0.11	0.109	0.117	0.102	0.111	0.114	0.123	0.11	0.101	0.117
	4th highest daily max 8-h average	ns	2	0.088	0.09	0.098	0.086	0.091	0.099	0.1	0.095	0.086	0.101
PM <sub>10</sub> *	90th percentile	down	1	64	58	55	54	56	47	43	46	44	36
	Weighted annual mean	down	1	39.6	38.1	37.1	35.3	33.1	29.9	30.1	28.9	26.3	23.2
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	42.8	45.7	36.8	34.3
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	22.72	20.08	17.45	16.48
<b>KOKOMO, IN</b>													
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	ND	34.3	38.1	29.7
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	ND	15.59	15.01	14.72
<b>Lafayette, LA</b>													
Ozone	2nd highest daily max	ns	1	0.101	0.101	0.109	0.098	0.105	0.1	0.094	0.123	0.09	0.095
	4th highest daily max 8-h average	ns	1	0.083	0.083	0.09	0.084	0.078	0.084	0.081	0.092	0.077	0.074
PM <sub>2.5</sub> *	98th percentile	NA	2	ND	ND	ND	ND	ND	ND	26.9	32	29.75	22.6
	Weighted annual mean	NA	2	ND	ND	ND	ND	ND	ND	12.85	13.07	11.445	10.05
<b>LAKE CHARLES, LA</b>													
SO <sub>2</sub>	2nd daily max	ns	1	0.019	0.017	0.018	0.018	0.012	0.012	0.015	0.013	0.012	0.017
	Annual mean	ns	1	0.006	0.004	0.005	0.003	0.003	0.003	0.004	0.004	0.003	0.004
NO <sub>2</sub>	Annual mean	ns	1	0.004	0.006	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.004
Ozone	2nd highest daily max	ns	3	0.11	0.094	0.103	0.096	0.119	0.119	0.103	0.117	0.097	0.089
	4th highest daily max 8-h average	ns	3	0.081	0.074	0.078	0.074	0.084	0.085	0.079	0.085	0.078	0.072
PM <sub>2.5</sub> *	98th percentile	NA	2	ND	ND	ND	ND	ND	ND	35.4	33.75	30.55	30.35
	Weighted annual mean	NA	2	ND	ND	ND	ND	ND	ND	12.99	12.795	11.235	10.005
<b>LAKELAND-WINTER HAVEN, FL</b>													
SO <sub>2</sub>	2nd daily max	ns	2	0.019	0.016	0.013	0.019	0.016	0.022	0.016	0.017	0.014	0.01
	Annual mean	ns	2	0.004	0.004	0.004	0.005	0.005	0.006	0.005	0.005	0.004	0.004
Ozone	2nd highest daily max	ns	2	0.103	0.088	0.089	0.089	0.101	0.104	0.097	0.101	0.108	0.09
	4th highest daily max 8-h average	ns	2	0.082	0.072	0.073	0.07	0.078	0.087	0.078	0.078	0.084	0.072
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	23.4	28.1	25.9	24.4
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	11.03	12.21	11.14	10.09
<b>LANCASTER, PA</b>													
CO	2nd max (daily-non-overlapping 8-h)	ns	1	3	3.8	2.4	2.6	3.3	1.9	2.1	1.9	2.2	2.2
SO <sub>2</sub>	2nd daily max	ns	1	0.026	0.03	0.018	0.021	0.023	0.02	0.021	0.024	0.018	0.014
	Annual mean	down	1	0.007	0.006	0.006	0.005	0.007	0.006	0.005	0.005	0.004	0.005
NO <sub>2</sub>	Annual mean	down	1	0.015	0.019	0.016	0.017	0.016	0.015	0.015	0.014	0.014	0.013
Ozone	2nd highest daily max	ns	1	0.118	0.111	0.124	0.101	0.133	0.119	0.127	0.107	0.127	0.115
	4th highest daily max 8-h average	ns	1	0.095	0.093	0.102	0.085	0.102	0.101	0.102	0.09	0.097	0.096
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	38.2	47.4	42.1	40.2
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	15.64	18.22	17.11	16.15
<b>LANSING-EAST LANSING, MI</b>													
Ozone	2nd highest daily max	ns	2	0.096	0.093	0.096	0.087	0.087	0.1	0.1	0.091	0.105	0.096
	4th highest daily max 8-h average	ns	2	0.079	0.079	0.082	0.077	0.077	0.08	0.088	0.076	0.085	0.087
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	34.6	37.2	37.2	32.8
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	12.6	13.07	14.04	13.52
<b>LAREDO, TX</b>													
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	ND	23.2	26.4	25.5
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	ND	12.1	10.29	10.06
<b>LAS CRUCES, NM</b>													
CO	2nd max (daily-non-overlapping 8-h)	down	1	8.7	5	4.4	4.3	4.8	4.2	3.8	3.7	3.3	3
SO <sub>2</sub>	2nd daily max	down	2	0.055	0.023	0.021	0.03	0.014	0.012	0.005	0.003	0.004	0.003
	Annual mean	down	2	0.006	0.004	0.004	0.004	0.003	0.003	0.001	0.001	0.001	0.001
Ozone	2nd highest daily max	down	3	0.107	0.104	0.105	0.104	0.09	0.1	0.092	0.1	0.087	0.089
	4th highest daily max 8-h average	ns	3	0.073	0.074	0.074	0.075	0.067	0.072	0.074	0.073	0.068	0.072
PM <sub>10</sub> *	90th percentile	up	1	51	62	65	60	56	58	80	73	74	80
	Weighted annual mean	ns	1	31.3	36	38.4	37.2	31.6	32.3	44.6	41.6	37.3	39.5
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	26.8	30.5	30.3	38.7
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	11.2	10.54	10.91	12.22

**Table A-16.** Metropolitan Statistical Area Air Quality Trends, 1993–2002 (continued)

Metropolitan Statistical Area	Trend	#Trend Sites	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	
<b>LAS VEGAS, NV-AZ</b>													
Ozone	2nd highest daily max	ns	1	0.099	0.099	0.086	0.096	0.09	0.103	0.09	0.086	0.092	0.096
	4th highest daily max 8-h average	ns	1	0.082	0.077	0.074	0.082	0.075	0.084	0.074	0.074	0.07	0.078
PM <sub>10</sub> *	90th percentile	down	2	81.5	77.5	82.5	83	76	69.75	70	63	65.5	68
	Weighted annual mean	ns	2	43.4	45.55	45.2	51.7	47.5	41.95	40.8	38.4	40.4	45.7
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	32.6	31.6	33.3	28.8
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	11.71	10.53	10.62	11.68
<b>LAWRENCE, MA-NH</b>													
SO <sub>2</sub>	2nd daily max	down	1	0.027	0.032	0.033	0.023	0.027	0.031	0.021	0.02	0.021	0.015
	Annual mean	down	1	0.007	0.007	0.007	0.005	0.006	0.008	0.005	0.004	0.004	0.004
Ozone	2nd highest daily max	ns	1	0.1	0.101	0.081	0.092	0.097	0.096	0.09	0.072	0.081	0.124
	4th highest daily max 8-h average	ns	1	0.076	0.082	0.069	0.079	0.078	0.076	0.068	0.06	0.062	0.088
<b>LAWTON, OK</b>													
CO	2nd max (daily-non-overlapping 8-h)	ns	1	2.6	1.9	3.1	2.667	2.233	1.8	1.7	1.4	2.2	2.1
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	ND	19.2	26.2	25.2
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	ND	9.08	9.91	9.35
<b>LEWISTON-AUBURN, ME</b>													
SO <sub>2</sub>	2nd daily max	down	1	0.025	0.025	0.02	0.018	0.017	0.019	0.016	0.018	0.015	0.016
	Annual mean	down	1	0.007	0.006	0.004	0.004	0.004	0.004	0.004	0.003	0.004	0.004
PM <sub>10</sub> *	90th percentile	ns	1	50	35	37	31	35	31	31	28	37	37
	Weighted annual mean	ns	1	24.3	20.2	19.8	20	20.6	18.2	18.6	17.5	20.7	18.8
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	35.7	25.8	32.5	30.3
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	9.99	9.6	11.31	10.45
<b>LEXINGTON, KY</b>													
SO <sub>2</sub>	2nd daily max	ns	1	0.026	0.037	0.016	0.02	0.016	0.023	0.02	0.02	0.029	0.016
	Annual mean	down	1	0.007	0.008	0.006	0.006	0.006	0.006	0.008	0.005	0.005	0.004
NO <sub>2</sub>	Annual mean	down	1	0.017	0.016	0.017	0.014	0.014	0.011	0.013	0.013	0.013	0.012
Ozone	2nd highest daily max	ns	2	0.102	0.102	0.103	0.089	0.098	0.104	0.108	0.085	0.088	0.095
	4th highest daily max 8-h average	ns	2	0.081	0.086	0.088	0.081	0.081	0.089	0.087	0.077	0.077	0.083
PM <sub>10</sub> *	90th percentile	down	2	42	46	39.5	37.5	37	40	40	37.5	35	36.5
	Weighted annual mean	down	2	23.85	27.6	22.8	23.1	21.85	23	22.55	22.95	22.2	21.45
PM <sub>2.5</sub> *	98th percentile	NA	2	ND	ND	ND	ND	ND	ND	35.2	37.45	34.2	41.3
	Weighted annual mean	NA	2	ND	ND	ND	ND	ND	ND	15.475	16.59	15.955	15.32
<b>LIMA, OH</b>													
SO <sub>2</sub>	2nd daily max	down	1	0.023	0.036	0.015	0.015	0.016	0.017	0.013	0.015	0.013	0.01
	Annual mean	ns	1	0.005	0.005	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
Ozone	2nd highest daily max	ns	1	0.099	0.102	0.106	0.11	0.091	0.102	0.107	0.1	0.096	0.109
	4th highest daily max 8-h average	ns	1	0.09	0.089	0.092	0.092	0.083	0.089	0.093	0.085	0.081	0.098
PM <sub>10</sub> *	90th percentile	down	1	40	42	38	38	43	37	26	36	29	36
	Weighted annual mean	down	1	27.9	30.6	27.2	24.9	24	24.3	16.6	24.6	20.8	24.4
<b>LINCOLN, NE</b>													
CO	2nd max (daily-non-overlapping 8-h)	ns	1	5.1	5.3	6.2	4.7	6.9	6	5.7	2.9	4	3.7
Ozone	2nd highest daily max	ns	1	0.057	0.075	0.07	0.06	0.061	0.068	0.062	0.072	0.061	0.063
	4th highest daily max 8-h average	ns	1	0.049	0.062	0.06	0.054	0.054	0.058	0.053	0.057	0.051	0.054
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	25.2	25.1	23.4	26
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	10.57	10.25	10.08	9.55
<b>LITTLE ROCK-NORTH LITTLE ROCK, AR</b>													
SO <sub>2</sub>	2nd daily max	down	1	0.017	0.009	0.008	0.009	0.006	0.006	0.005	0.007	0.005	0.005
	Annual mean	down	1	0.006	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
NO <sub>2</sub>	Annual mean	ns	1	0.009	0.011	0.011	0.011	0.01	0.011	0.011	0.01	0.01	0.01
Ozone	2nd highest daily max	ns	2	0.096	0.09	0.106	0.096	0.099	0.096	0.103	0.113	0.102	0.101
	4th highest daily max 8-h average	up	2	0.076	0.076	0.086	0.078	0.077	0.078	0.083	0.09	0.079	0.085
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	ND	33.5	32	31.9
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	ND	15.47	14.72	13.24
<b>LONGVIEW-MARSHALL, TX</b>													
Ozone	2nd highest daily max	ns	1	0.114	0.104	0.145	0.106	0.124	0.129	0.134	0.131	0.111	0.11
	4th highest daily max 8-h average	ns	1	0.093	0.081	0.102	0.082	0.091	0.104	0.105	0.099	0.082	0.084
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	ND	28.8	28	39.2
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	ND	13.41	12.18	12.36

**Table A-16.** Metropolitan Statistical Area Air Quality Trends, 1993–2002 (continued)

Metropolitan Statistical Area	Trend	#Trend Sites	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	
<b>LOS ANGELES-LONG BEACH, CA</b>													
CO	Maximum quarterly value	ns	2	0.088	0.072	0.058	0.053	0.067	0.045	0.094	0.059	0.08	0.036
CO	2nd max (daily-non-overlapping 8-h)	down	4	8.725	10.75	9.525	9.25	8.55	7.575	7.475	6.5	5.025	5.125
SO <sub>2</sub>	2nd daily max	ns	2	0.008	0.006	0.005	0.006	0.006	0.007	0.006	0.006	0.006	0.007
NO <sub>2</sub>	Annual mean	ns	2	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
Ozone	Annual mean	down	3	0.039	0.046	0.045	0.043	0.039	0.039	0.041	0.039	0.037	0.035
Ozone	2nd highest daily max	down	4	0.15	0.165	0.14	0.126	0.112	0.138	0.101	0.118	0.104	0.103
Ozone	4th highest daily max 8-h average	down	4	0.098	0.101	0.089	0.085	0.081	0.088	0.07	0.08	0.074	0.073
PM <sub>10</sub> *	90th percentile	ns	2	74.5	62.5	73.5	71	70	62.5	75	64.5	67	58
PM <sub>10</sub> *	Weighted annual mean	ns	2	44	41.1	45.15	43.35	45.55	38.3	50	42.7	43.1	41.75
PM <sub>2.5</sub> *	98th percentile	NA	4	ND	ND	ND	ND	ND	ND	53.775	66.475	65.025	55.225
PM <sub>2.5</sub> *	Weighted annual mean	NA	4	ND	ND	ND	ND	ND	ND	23.955	23.211	24.325	23.355
<b>LOUISVILLE, KY-IN</b>													
CO	2nd max (daily-non-overlapping 8-h)	ns	1	4.5	4.6	3.6	3.4	3.8	3.8	3.3	3.8	3.9	4.8
SO <sub>2</sub>	2nd daily max	down	2	0.038	0.038	0.036	0.033	0.029	0.027	0.027	0.033	0.031	0.024
NO <sub>2</sub>	Annual mean	down	2	0.011	0.011	0.01	0.008	0.006	0.005	0.009	0.007	0.005	0.005
Ozone	Annual mean	ns	1	0.026	0.026	0.022	0.02	0.02	0.023	0.022	0.022	0.023	0.02
Ozone	2nd highest daily max	ns	2	0.123	0.124	0.124	0.109	0.126	0.136	0.114	0.097	0.101	0.12
Ozone	4th highest daily max 8-h average	ns	2	0.096	0.099	0.097	0.087	0.091	0.102	0.092	0.081	0.081	0.099
PM <sub>10</sub> *	90th percentile	ns	2	54.5	45.5	49	49	49.5	43	44.5	57.5	48.75	42
PM <sub>10</sub> *	Weighted annual mean	ns	2	29.65	30.5	29	28.25	30.45	26.35	26.35	31.1	28.7	25.9
PM <sub>2.5</sub> *	98th percentile	NA	3	ND	ND	ND	ND	ND	ND	39.267	37.9	41.383	44.233
PM <sub>2.5</sub> *	Weighted annual mean	NA	3	ND	ND	ND	ND	ND	ND	16.443	16.673	16.908	16.41
<b>LOWELL, MA-NH</b>													
CO	2nd max (daily-non-overlapping 8-h)	down	1	5.1	6.5	7.8	4.5	3.6	3.4	4.2	3.2	2.7	2.4
<b>LUBBOCK, TX</b>													
PM <sub>10</sub> *	90th percentile	ns	1	30	33	34	34	27	37	26	32	29	29
PM <sub>10</sub> *	Weighted annual mean	ns	1	19.9	23	20.8	21.7	16.7	20.5	18.1	19	19.7	19.7
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	ND	18.5	17.2	21.3
PM <sub>2.5</sub> *	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	ND	7.42	7.66	7.55
<b>MACON, GA</b>													
PM <sub>2.5</sub> *	98th percentile	NA	2	ND	ND	ND	ND	ND	ND	49.2	36.45	31	31.75
PM <sub>2.5</sub> *	Weighted annual mean	NA	2	ND	ND	ND	ND	ND	ND	18.21	17.505	14.935	14.635
<b>MADISON, WI</b>													
Ozone	2nd highest daily max	ns	1	0.079	0.082	0.1	0.094	0.088	0.089	0.098	0.087	0.088	0.09
Ozone	4th highest daily max 8-h average	ns	1	0.066	0.071	0.08	0.079	0.079	0.076	0.085	0.071	0.078	0.08
PM <sub>10</sub> *	90th percentile	ns	1	37	33	43	30	34	43	38	34	32	31
PM <sub>10</sub> *	Weighted annual mean	ns	1	21	22.4	22.8	19.6	20.3	26.6	20.8	22	22	19
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	33.4	34.2	36.6	32.7
PM <sub>2.5</sub> *	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	13.43	12.75	13.31	12.31
<b>MANSFIELD, OH</b>													
PM <sub>10</sub> *	90th percentile	down	1	44	49	42	40	40	41	39	37	37	37
PM <sub>10</sub> *	Weighted annual mean	down	1	27.7	29.2	24.7	24.3	23.3	23.8	22.6	23.7	23.7	23.7
<b>MAYAGUEZ, PR</b>													
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	18.8	16.4	15.7	16.7
PM <sub>2.5</sub> *	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	8.79	7.91	8.08	7.8
<b>MCALLEN-EDINBURG-MISSION, TX</b>													
PM <sub>2.5</sub> *	98th percentile	NA	2	ND	ND	ND	ND	ND	ND	ND	22.4	21.45	28.55
PM <sub>2.5</sub> *	Weighted annual mean	NA	2	ND	ND	ND	ND	ND	ND	ND	10.835	10.52	10.48
<b>MEDFORD-ASHLAND, OR</b>													
Ozone	2nd highest daily max	ns	1	0.081	0.087	0.091	0.101	0.074	0.117	0.077	0.079	0.081	0.099
Ozone	4th highest daily max 8-h average	ns	1	0.066	0.068	0.071	0.075	0.063	0.085	0.065	0.067	0.064	0.078
PM <sub>10</sub> *	90th percentile	down	3	50.667	45.667	37.333	37	36.333	33	42	38.333	34.667	36.667
PM <sub>10</sub> *	Weighted annual mean	down	3	28.767	27.6	22.067	21.167	22.2	21	24.1	20.933	19.8	21.033
PM <sub>2.5</sub> *	98th percentile	NA	3	ND	ND	ND	ND	ND	ND	33.95	34.6	26.1	33.6
PM <sub>2.5</sub> *	Weighted annual mean	NA	3	ND	ND	ND	ND	ND	ND	9.08	9.447	8.673	10.37

**Table A-16.** Metropolitan Statistical Area Air Quality Trends, 1993–2002 (continued)

Metropolitan Statistical Area	Trend	#Trend Sites	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
<b>MEMPHIS, TN-AR-MS</b>												
CO	2nd max (daily-non-overlapping 8-h)	down	1	8.5	7.8	6.2	5	4.2	5.1	4.6	4.4	4.1
NO <sub>2</sub>	Annual mean	ns	1	0.026	0.027	0.027	0.024	0.028	0.029	0.025	0.025	0.025
Ozone	2nd highest daily max	ns	1	0.102	0.109	0.14	0.114	0.122	0.1	0.13	0.112	0.121
	4th highest daily max 8-h average	ns	1	0.077	0.084	0.099	0.096	0.091	0.085	0.095	0.091	0.092
PM <sub>10</sub> *	90th percentile	down	2	49.5	45.5	47	39.5	45.5	41.5	42	37.5	36
	Weighted annual mean	down	2	29.55	28.05	28.7	26.15	27.55	25.8	26.1	26.2	23.9
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	34.9	36	31.9
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	15.85	16.3	14.53
<b>MERCED, CA</b>												
NO <sub>2</sub>	Annual mean	ns	1	0.015	0.013	0.012	0.012	0.013	0.011	0.012	0.012	0.012
Ozone	2nd highest daily max	ns	1	0.12	0.119	0.13	0.124	0.09	0.14	0.125	0.12	0.113
	4th highest daily max 8-h average	ns	1	0.096	0.097	0.107	0.102	0.074	0.112	0.105	0.103	0.096
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	68.4	70.1	55.1
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	17.28	16.75	18.74
<b>MIAMI, FL</b>												
CO	2nd max (daily-non-overlapping 8-h)	down	1	5.5	4.9	5.1	4.6	4.1	3.4	3.9	3.4	4.2
SO <sub>2</sub>	2nd daily max	ns	1	0.004	0.004	0.004	0.005	0.004	0.004	0.003	0.003	0.004
	Annual mean	ns	1	0.001	0.001	0.002	0.002	0.001	0.001	0.001	0.002	0.002
NO <sub>2</sub>	Annual mean	ns	2	0.012	0.01	0.011	0.011	0.012	0.011	0.012	0.011	0.01
Ozone	2nd highest daily max	ns	2	0.105	0.092	0.098	0.092	0.101	0.103	0.107	0.088	0.098
	4th highest daily max 8-h average	ns	2	0.081	0.072	0.072	0.069	0.073	0.083	0.077	0.074	0.067
PM <sub>10</sub> *	90th percentile	ns	3	39	33.667	35.667	41.667	32	35.667	32.667	33.667	38
	Weighted annual mean	down	3	27.533	25.067	26.067	26.767	23.467	26	23.067	23.967	24.133
PM <sub>2.5</sub> *	98th percentile	NA	2	ND	ND	ND	ND	ND	ND	21.75	22.65	19.45
	Weighted annual mean	NA	2	ND	ND	ND	ND	ND	ND	10.33	10.075	8.97
<b>MIDDLESEX-SOMERSET-HUNTERDON, NJ PMS</b>												
CO	2nd max (daily-non-overlapping 8-h)	down	1	3.7	4.3	5.4	3.3	3.8	3	3.2	3.2	3.3
SO <sub>2</sub>	2nd daily max	ns	1	0.018	0.028	0.018	0.024	0.019	0.018	0.016	0.018	0.016
	Annual mean	ns	1	0.005	0.005	0.004	0.005	0.005	0.005	0.005	0.005	0.005
NO <sub>2</sub>	Annual mean	ns	1	0.019	0.019	0.019	0.02	0.018	0.019	0.019	0.019	0.016
Ozone	2nd highest daily max	ns	2	0.088	0.085	0.133	0.117	0.13	0.118	0.144	0.111	0.132
	4th highest daily max 8-h average	ns	2	0.069	0.065	0.106	0.092	0.105	0.098	0.11	0.093	0.103
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	31.4	34.5	34.1
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	11.49	13.14	13.23
												11.13
<b>MILWAUKEE-WAUKESHA, WI</b>												
CO	2nd max (daily-non-overlapping 8-h)	down	1	2.9	3	2.4	1.9	1.8	1.9	1.9	1.5	1.5
SO <sub>2</sub>	2nd daily max	ns	1	0.018	0.032	0.025	0.028	0.028	0.022	0.024	0.026	0.018
	Annual mean	ns	1	0.003	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.003
NO <sub>2</sub>	Annual mean	down	1	0.017	0.017	0.017	0.017	0.016	0.016	0.016	0.016	0.016
Ozone	2nd highest daily max	ns	2	0.103	0.133	0.123	0.112	0.118	0.118	0.116	0.096	0.113
	4th highest daily max 8-h average	ns	2	0.082	0.087	0.103	0.086	0.083	0.084	0.091	0.08	0.093
PM <sub>10</sub> *	90th percentile	ns	2	44	37.5	51	34.5	33.5	37.5	36	32.5	33.5
	Weighted annual mean	ns	2	23.95	24.25	25.65	23.35	22.1	24.65	22.3	20.55	22.05
PM <sub>2.5</sub> *	98th percentile	NA	3	ND	ND	ND	ND	ND	ND	37.733	31.233	37.3
	Weighted annual mean	NA	3	ND	ND	ND	ND	ND	ND	14.427	13.253	13.67
												12.873
<b>MINNEAPOLIS-ST. PAUL, MN-WI</b>												
CO	2nd max (daily-non-overlapping 8-h)	down	3	3.933	4.833	3.867	3.067	3.233	4	3.033	3.067	3
SO <sub>2</sub>	2nd daily max	ns	2	0.021	0.025	0.018	0.019	0.024	0.019	0.022	0.02	0.015
	Annual mean	down	2	0.003	0.004	0.003	0.003	0.004	0.003	0.003	0.003	0.002
NO <sub>2</sub>	Annual mean	down	1	0.019	0.019	0.019	0.015	0.014	0.013	0.014	0.012	0.01
Ozone	2nd highest daily max	ns	2	0.074	0.081	0.101	0.092	0.088	0.092	0.085	0.088	0.097
	4th highest daily max 8-h average	ns	2	0.058	0.069	0.077	0.071	0.076	0.071	0.074	0.068	0.074
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	ND	42.7	34.7
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	ND	13.12	13.02
												11.33
<b>MISSOULA, MT</b>												
PM <sub>10</sub> *	90th percentile	down	1	76	63	45	45	40	37	29	30	34
	Weighted annual mean	down	1	45	33	24.2	24	21.3	20.2	17.7	18.3	16.4
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	29.3	33.8	43.7
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	9.83	12.41	10.43
												8.47

**Table A-16.** Metropolitan Statistical Area Air Quality Trends, 1993–2002 (continued)

Metropolitan Statistical Area	Trend	#Trend Sites	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	
<b>MOBILE, AL</b>													
Ozone	2nd highest daily max	ns	1	0.098	0.085	0.108	0.104	0.117	0.114	0.118	0.115	0.095	
	4th highest daily max 8-h average	ns	1	0.074	0.072	0.079	0.081	0.081	0.098	0.085	0.089	0.076	
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	36.1	39.7	26.7	
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	16.81	15.27	12.35	
<b>MODESTO, CA</b>													
CO	2nd max (daily-non-overlapping 8-h)	ns	2	4.65	5.1	4.2	4.3	3.7	4.3	4.85	4.25	3.95	
NO <sub>2</sub>	Annual mean	down	2	0.02	0.02	0.019	0.019	0.019	0.019	0.02	0.017	0.018	
Ozone	2nd highest daily max	ns	2	0.12	0.112	0.125	0.124	0.11	0.14	0.109	0.108	0.11	
	4th highest daily max 8-h average	ns	2	0.093	0.09	0.099	0.096	0.086	0.103	0.089	0.089	0.093	
PM <sub>10</sub> *	90th percentile	ns	2	52.5	52.5	69.5	48	51.5	54.5	71	53	54.5	
	Weighted annual mean	ns	2	34.45	34.45	33.7	28.6	31.55	28.15	38.55	30	32.4	31
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	100	71	69	
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	24.88	18.92	15.58	
<b>MONMOUTH-OCEAN, NJ</b>													
CO	2nd max (daily-non-overlapping 8-h)	down	1	6.4	5	3.6	4.6	3.2	2.9	3.4	3.2	3.8	
Ozone	2nd highest daily max	ns	1	0.123	0.119	0.149	0.118	0.15	0.135	0.135	0.136	0.13	
	4th highest daily max 8-h average	ns	1	0.103	0.099	0.117	0.095	0.113	0.104	0.105	0.114	0.108	
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	36.8	36.6	32.55	
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	10.37	11.52	10.81	
<b>MONROE, LA</b>													
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	28.2	27.2	27.2	
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	13.93	13.33	11.85	
<b>MONTGOMERY, AL</b>													
Ozone	2nd highest daily max	ns	2	0.116	0.098	0.097	0.097	0.085	0.119	0.103	0.105	0.093	
	4th highest daily max 8-h average	ns	2	0.086	0.078	0.082	0.072	0.069	0.092	0.085	0.085	0.077	
PM <sub>10</sub> *	90th percentile	ns	2	37	38	42	36	39.5	40	40	42.5	40	
	Weighted annual mean	ns	2	24.35	25.45	25	21.85	23.4	27.25	24.65	25.25	22.1	
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	44.5	42.2	29	
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	18.94	17.2	14.4	
<b>MUNCIE, IN</b>													
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	34.8	35.7							
	Weighted annual mean	NA	1	ND	16.24	14.49							
<b>MYRTLE BEACH, SC</b>													
Maximum quarterly value		ns	1	0.006	0.006	0.004	0.004	0.003	0.009	0.01	0.005	0.008	
<b>NASHUA, NH</b>													
CO	2nd max (daily-non-overlapping 8-h)	down	1	5.8	8	7.6	7.8	5.3	5.3	5.3	4.1	4	
SO <sub>2</sub>	2nd daily max	down	2	0.019	0.023	0.019	0.019	0.02	0.016	0.015	0.016	0.014	
	Annual mean	down	2	0.005	0.006	0.004	0.004	0.005	0.004	0.004	0.003	0.004	
Ozone	2nd highest daily max	ns	1	0.125	0.105	0.111	0.098	0.115	0.1	0.1	0.089	0.108	
	4th highest daily max 8-h average	ns	1	0.086	0.083	0.088	0.081	0.094	0.084	0.089	0.07	0.091	
PM <sub>10</sub> *	90th percentile	ns	2	28.5	32.5	26	28.5	30	29	28	25	32.5	
	Weighted annual mean	ns	2	16.55	14.8	13.85	16.9	18.25	16.65	16.5	15.05	16.85	
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	50.9	20.8	28.2	
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	13.5	10.29	10.83	
<b>NASHVILLE, TN</b>													
CO	2nd max (daily-non-overlapping 8-h)	down	1	7.3	7.1	7.3	5	6.3	5.6	5.4	5.6	5.8	
SO <sub>2</sub>	2nd daily max	down	2	0.063	0.041	0.025	0.049	0.059	0.035	0.029	0.029	0.026	
	Annual mean	down	2	0.01	0.007	0.005	0.006	0.006	0.005	0.004	0.004	0.003	
NO <sub>2</sub>	Annual mean	ns	1	0.012	0.02	0.014	0.012	0.013	0.011	0.019	0.019	0.018	
Ozone	2nd highest daily max	ns	2	0.098	0.093	0.095	0.096	0.113	0.105	0.116	0.096	0.086	
	4th highest daily max 8-h average	ns	2	0.074	0.076	0.078	0.078	0.092	0.088	0.092	0.079	0.073	
PM <sub>10</sub> *	90th percentile	ns	2	41.5	45.5	44	39	40.5	43	40.5	44.5	39.5	
	Weighted annual mean	down	2	27.25	26.1	27.2	25.55	24.45	25.4	24.2	26.95	24.15	
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	43	36.9	34.7	
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	18.83	16.97	15.23	
<b>NASSAU-SUFFOLK, NY</b>													
NO <sub>2</sub>	Annual mean	down	1	0.026	0.028	0.025	0.026	0.025	0.022	0.025	0.024	0.022	
Ozone	2nd highest daily max	ns	1	0.134	0.126	0.146	0.12	0.137	0.143	0.126	0.112	0.126	
	4th highest daily max 8-h average	ns	1	0.097	0.092	0.11	0.091	0.106	0.096	0.091	0.086	0.108	
PM <sub>10</sub> *	90th percentile	ns	1	30	41	37	29	35	29	25	29	31	
	Weighted annual mean	down	1	19.4	23.9	20.1	18	21.3	18.1	15.9	17	17.4	
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	32.1	31.3	31.9	
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	12.22	12.86	11.35	

**Table A-16.** Metropolitan Statistical Area Air Quality Trends, 1993–2002 (continued)

Metropolitan Statistical Area	Trend	#Trend Sites	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	
<b>NEW BEDFORD, MA</b>													
Ozone	2nd highest daily max	ns	1	0.088	0.096	0.138	0.118	0.123	0.101	0.125	0.101	0.136	0.113
	4th highest daily max 8-h average	ns	1	0.073	0.077	0.107	0.092	0.092	0.083	0.098	0.082	0.101	0.087
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	30	34.65	39.3	23.1
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	12.12	12.395	12.67	10.25
<b>NEW HAVEN-MERIDEN, CT</b>													
CO	2nd max (daily-non-overlapping 8-h)	down	1	3.7	3.7	3.7	2.9	3.9	2.7	3.1	2.6	2.5	2.3
SO <sub>2</sub>	2nd daily max	ns	1	0.044	0.056	0.038	0.031	0.032	0.031	0.027	0.031	0.037	0.032
	Annual mean	ns	1	0.009	0.01	0.008	0.008	0.006	0.006	0.007	0.006	0.007	0.007
NO <sub>2</sub>	Annual mean	ns	1	0.027	0.03	0.025	0.026	0.024	0.027	0.026	0.025	0.027	0.025
Ozone	2nd highest daily max	ns	1	0.147	0.148	0.165	0.12	0.145	0.13	0.143	0.136	0.146	0.146
	4th highest daily max 8-h average	ns	1	0.105	0.093	0.117	0.095	0.109	0.097	0.104	0.087	0.1	0.11
PM <sub>10</sub> *	90th percentile	ns	2	48	61.5	48.5	40	38.5	35.5	38	38.5	43.5	39
	Weighted annual mean	down	2	28.05	34	26.7	24.35	24.95	23.95	23.5	24.15	24.85	22.2
PM <sub>2.5</sub> *	98th percentile	NA	3	ND	ND	ND	ND	ND	ND	36.05	37.133	37.4	34.067
	Weighted annual mean	NA	3	ND	ND	ND	ND	ND	ND	15.525	13.94	14.377	13.403
<b>NEW LONDON-NORWICH, CT-RI</b>													
Ozone	2nd highest daily max	ns	1	0.126	0.118	0.14	0.121	0.15	0.116	0.127	0.135	0.11	0.134
	4th highest daily max 8-h average	ns	1	0.099	0.093	0.101	0.095	0.104	0.083	0.096	0.084	0.09	0.095
PM <sub>10</sub> *	90th percentile	down	1	32	40	31	31	30	29	25	26	32	28
	Weighted annual mean	down	1	18.8	22.7	17.6	19.4	18.9	18	16.5	16.2	17.1	14.6
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	ND	27.6	34.4	25.7
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	ND	11.05	12.74	11.13
<b>NEW ORLEANS, LA</b>													
	Maximum quarterly value	ns	1	0.074	0.121	0.411	0.093	0.055	0.115	0.078	0.115	0.103	0.125
CO	2nd max (daily-non-overlapping 8-h)	ns	1	5.2	4.3	3.1	4	3.2	3	3.1	4	3.6	3.6
SO <sub>2</sub>	2nd daily max	ns	1	0.025	0.027	0.022	0.035	0.017	0.026	0.023	0.02	0.026	0.016
	Annual mean	down	1	0.006	0.008	0.007	0.006	0.005	0.004	0.005	0.005	0.005	0.004
NO <sub>2</sub>	Annual mean	ns	1	0.019	0.02	0.021	0.018	0.018	0.02	0.022	0.019	0.02	0.017
Ozone	2nd highest daily max	ns	3	0.108	0.11	0.11	0.106	0.098	0.11	0.108	0.115	0.098	0.102
	4th highest daily max 8-h average	ns	3	0.079	0.084	0.086	0.084	0.078	0.083	0.087	0.089	0.078	0.073
PM <sub>10</sub> *	90th percentile	ns	1	42	42	35	33	39	43	47	44	49	37
	Weighted annual mean	ns	1	26.7	26.7	24.6	23.1	25.8	26.45	27.1	26.2	29.6	23.3
PM <sub>2.5</sub> *	98th percentile	NA	2	ND	ND	ND	ND	ND	ND	36	33.45	29	22.2
	Weighted annual mean	NA	2	ND	ND	ND	ND	ND	ND	15.04	14.02	13.135	11.13
<b>NEW YORK, NY</b>													
	Maximum quarterly value	ns	1	0.031	0.031	0.024	0.024	0.022	0.021	0.022	0.023	0.024	0.024
CO	2nd max (daily-non-overlapping 8-h)	down	3	4.7	4.967	5.633	4.467	3.667	3.767	4.167	3.533	2.833	2.667
SO <sub>2</sub>	2nd daily max	down	1	0.052	0.064	0.047	0.047	0.04	0.038	0.045	0.046	0.038	0.036
	Annual mean	down	1	0.018	0.017	0.015	0.015	0.012	0.012	0.013	0.013	0.013	0.012
NO <sub>2</sub>	Annual mean	down	2	0.037	0.038	0.036	0.037	0.035	0.035	0.035	0.034	0.034	0.033
Ozone	2nd highest daily max	ns	2	0.116	0.121	0.123	0.12	0.14	0.104	0.142	0.106	0.111	0.125
	4th highest daily max 8-h average	ns	2	0.094	0.099	0.1	0.089	0.109	0.078	0.104	0.083	0.087	0.098
PM <sub>10</sub> *	90th percentile	down	1	35	34	30	31	30	29	35	31	28	27
	Weighted annual mean	down	1	19.7	20.7	19.1	20	19.6	17.5	16.2	18.8	15.9	18.3
PM <sub>2.5</sub> *	98th percentile	NA	4	ND	ND	ND	ND	ND	ND	ND	38.525	36.425	34.075
	Weighted annual mean	NA	4	ND	ND	ND	ND	ND	ND	ND	15.108	15.135	13.783
<b>NEWARK, NJ</b>													
	2nd max (daily-non-overlapping 8-h)	down	1	6	11.3	7.7	6	5.1	5.1	6.6	4.7	4.8	4.4
CO	2nd daily max	down	2	0.025	0.033	0.026	0.027	0.025	0.021	0.022	0.023	0.023	0.02
	Annual mean	ns	2	0.007	0.007	0.005	0.006	0.006	0.006	0.006	0.006	0.006	0.006
NO <sub>2</sub>	Annual mean	ns	2	0.024	0.027	0.025	0.026	0.026	0.027	0.026	0.026	0.026	0.025
Ozone	2nd highest daily max	ns	1	0.121	0.119	0.125	0.114	0.111	0.119	0.119	0.11	0.121	0.142
	4th highest daily max 8-h average	ns	1	0.104	0.094	0.11	0.093	0.097	0.097	0.102	0.09	0.101	0.105
PM <sub>10</sub> *	90th percentile	ns	1	59	62	48	52	51	49	55	54	50	51
	Weighted annual mean	ns	1	33.7	36.7	28.9	35.6	32	31.2	32.7	35.3	32.4	29.8
PM <sub>2.5</sub> *	98th percentile	NA	2	ND	ND	ND	ND	ND	ND	35.25	37.2	36.6	36.7
	Weighted annual mean	NA	2	ND	ND	ND	ND	ND	ND	13.365	14.03	13.78	12.58
<b>NEWBURGH, NY-PA</b>													
Ozone	2nd highest daily max	ns	1	0.115	0.115	0.115	0.12	0.102	0.104	0.119	0.096	0.108	0.099
	4th highest daily max 8-h average	down	1	0.095	0.095	0.095	0.091	0.088	0.088	0.094	0.078	0.09	0.085
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	ND	29.8	27.8	30.5
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	ND	11.87	11.58	11.04

**Table A-16.** Metropolitan Statistical Area Air Quality Trends, 1993–2002 (continued)

Metropolitan Statistical Area	Trend	#Trend Sites	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002		
<b>NORFOLK-VIRGINIA BEACH-NEWPORT NEWS, VA</b>														
CO	2nd max (daily-non-overlapping 8-h)	down	2	5.55	6.3	4.7	5.05	3.7	5.55	4.25	3.65	3.85	3.6	
SO <sub>2</sub>	2nd daily max	ns	1	0.027	0.025	0.028	0.025	0.023	0.021	0.022	0.023	0.023	0.031	
Annual mean		ns	1	0.007	0.008	0.007	0.007	0.007	0.006	0.007	0.007	0.006	0.006	
NO <sub>2</sub>	Annual mean	ns	1	0.021	0.019	0.018	0.018	0.019	0.019	0.017	0.016	0.018	0.018	
Ozone	2nd highest daily max	ns	1	0.123	0.101	0.099	0.097	0.113	0.104	0.135	0.094	0.1	0.128	
	4th highest daily max 8-h average	ns	1	0.095	0.085	0.082	0.083	0.097	0.09	0.097	0.081	0.085	0.102	
PM <sub>2.5</sub> *	98th percentile	NA	2	ND	ND	ND	ND	ND	ND	35.4	29.75	30.4	28.05	
Weighted annual mean		NA	2	ND	ND	ND	ND	ND	ND	13.33	13.585	13.515	12.155	
<b>OAKLAND, CA</b>														
	Maximum quarterly value	down	1	0.015	0.012	0.009	0.009	0.005	0.006	0.007	0.012	0.005	0.005	
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	ND	38.3	54.4	50.5	
Weighted annual mean		NA	1	ND	ND	ND	ND	ND	ND	ND	11.21	11.93	13.83	
<b>OCALA, FL</b>														
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	21.3	23.9	22.8	24.8	
Weighted annual mean		NA	1	ND	ND	ND	ND	ND	ND	11.4	10.95	10.37	9.82	
<b>OKLAHOMA CITY, OK</b>														
CO	2nd max (daily-non-overlapping 8-h)	down	1	6.2	5.3	4.8	5.2	5.4	4.1	4.3	4.2	4	3	
NO <sub>2</sub>	Annual mean	ns	1	0.013	0.015	0.014	0.014	0.015	0.015	0.014	0.013	0.013	0.014	
Ozone	2nd highest daily max	down	1	0.103	0.1	0.103	0.102	0.103	0.109	0.097	0.091	0.093	0.091	
	4th highest daily max 8-h average	ns	1	0.077	0.079	0.085	0.081	0.084	0.089	0.084	0.08	0.078	0.08	
PM <sub>10</sub> *	90th percentile	ns	1	39	35	42	49	42	42.667	43.333	44	38	38	
Weighted annual mean		ns	1	23.9	23.3	22.8	27.4	23.8	24.4	25	25.6	22.9	22.5	
PM <sub>2.5</sub> *	98th percentile	NA	2	ND	ND	ND	ND	ND	ND	ND	25.9	26	29.5	
Weighted annual mean		NA	2	ND	ND	ND	ND	ND	ND	ND	10.66	10.895	10.445	
<b>OLYMPIA, WA</b>														
PM <sub>10</sub> *	90th percentile	down	1	49	30	35	30	36	22	26	31	26	25	
Weighted annual mean		down	1	23.8	17.7	16.8	15.4	16	14.1	14.4	15.4	15.4	13.9	
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	29.4	41.2	36.4	30.1	
Weighted annual mean		NA	1	ND	ND	ND	ND	ND	ND	9.21	10.33	9.64	9.04	
<b>OMAHA, NE-IA</b>														
CO	2nd max (daily-non-overlapping 8-h)	ns	1	7.3	4.2	7.5	6.9	5.4	7.7	8.8	3	3.8	3.9	
Ozone	2nd highest daily max	ns	1	0.058	0.078	0.088	0.074	0.074	0.075	0.088	0.077	0.07	0.08	
	4th highest daily max 8-h average	ns	1	0.048	0.065	0.075	0.063	0.063	0.065	0.068	0.063	0.056	0.07	
PM <sub>10</sub> *	90th percentile	ns	2	50	55	49	53	59.5	69.5	83.5	60	57	59	
Weighted annual mean		up	2	31.95	35.05	30.1	36.2	35.4	36.15	44.55	39.3	36.7	36.85	
PM <sub>2.5</sub> *	98th percentile	NA	2	ND	ND	ND	ND	ND	ND	ND	25.8	23.75	27.1	
Weighted annual mean		NA	2	ND	ND	ND	ND	ND	ND	ND	10.775	10.52	10.615	
<b>ORANGE COUNTY, CA</b>														
CO	2nd max (daily-non-overlapping 8-h)	down	2	6.65	7.95	6.3	6.35	5.2	5.7	5.675	5.45	4.1	4.15	
SO <sub>2</sub>	2nd daily max	ns	1	0.006	0.005	0.005	0.004	0.006	0.005	0.005	0.005	0.004	0.009	
Annual mean		ns	1	0.002	0.002	0.003	0.001	0.001	0.002	0.002	0.002	0.002	0.002	
NO <sub>2</sub>	Annual mean	down	2	0.03	0.032	0.031	0.027	0.026	0.026	0.027	0.025	0.022	0.021	
Ozone	2nd highest daily max	down	2	0.14	0.131	0.117	0.105	0.097	0.126	0.108	0.1	0.094	0.092	
	4th highest daily max 8-h average	down	2	0.084	0.085	0.078	0.075	0.071	0.08	0.073	0.071	0.068	0.068	
PM <sub>10</sub> *	90th percentile	ns	1	63	54	74	57	58	53	89	59	55	49	
Weighted annual mean		ns	1	38.3	37.5	43.5	35.2	38.8	35.8	44.3	39.5	36	33.5	
PM <sub>2.5</sub> *	98th percentile	NA	2	ND	ND	ND	ND	ND	ND	ND	51.4	52.05	46.95	
Weighted annual mean		NA	2	ND	ND	ND	ND	ND	ND	ND	17.53	18.91	17.055	
<b>ORLANDO, FL</b>														
CO	2nd max (daily-non-overlapping 8-h)	down	2	3.8	3.6	3.3	3.25	3.55	2.95	2.75	2.5	2.05	2.5	
SO <sub>2</sub>	2nd daily max	ns	1	0.011	0.012	0.006	0.008	0.006	0.007	0.007	0.009	0.008	0.005	
Annual mean		ns	1	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.002	0.001	
NO <sub>2</sub>	Annual mean	ns	1	0.012	0.011	0.01	0.013	0.013	0.011	0.012	0.012	0.012	0.011	
Ozone	2nd highest daily max	ns	2	0.097	0.101	0.099	0.1	0.103	0.109	0.101	0.104	0.094	0.101	
	4th highest daily max 8-h average	ns	2	0.081	0.082	0.075	0.077	0.079	0.089	0.082	0.08	0.078	0.075	
PM <sub>10</sub> *	90th percentile	ns	3	32.333	30	30.333	34.333	30	34.667	33.333	33.333	30	27.667	
Weighted annual mean		ns	3	22.333	21.6	20.5	22.267	21.8	23.9	23.2	22.8	22.8	18.967	
PM <sub>2.5</sub> *	98th percentile	NA	2	ND	ND	ND	ND	ND	ND	ND	24.6	29.7	27	21.85
Weighted annual mean		NA	2	ND	ND	ND	ND	ND	ND	ND	11.275	11.94	10.795	9.605

**Table A-16.** Metropolitan Statistical Area Air Quality Trends, 1993–2002 (continued)

Metropolitan Statistical Area	Trend	#Trend Sites	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	
<b>OWENSBORO, KY</b>													
SO <sub>2</sub>	2nd daily max	down	1	0.05	0.035	0.028	0.02	0.027	0.023	0.024	0.017	0.019	0.02
	Annual mean	down	1	0.009	0.009	0.007	0.007	0.007	0.007	0.006	0.005	0.004	0.004
NO <sub>2</sub>	Annual mean	down	1	0.012	0.012	0.013	0.011	0.012	0.013	0.011	0.011	0.01	0.01
Ozone	2nd highest daily max	ns	1	0.106	0.107	0.109	0.107	0.108	0.11	0.102	0.082	0.086	0.109
	4th highest daily max 8-h average	ns	1	0.081	0.092	0.088	0.086	0.087	0.086	0.09	0.074	0.073	0.086
PM <sub>10</sub> *	90th percentile	down	1	43	42	42	40	39	40	38	32	34	33
	Weighted annual mean	down	1	24.9	25.6	24.9	23.4	22.8	23.1	22	20	20.6	19.9
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	33.1	32.3	31.5	29.5
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	15.22	15.2	15.18	14.64
<b>PANAMA CITY, FL</b>													
PM <sub>10</sub> *	90th percentile	ns	1	46	34	37	31	38	41	35	37	31	31
	Weighted annual mean	ns	1	29.3	22.6	23.4	21.9	25.1	25.4	25.2	24.8	22.4	20.8
<b>PARKERSBURG-MARIETTA, WV-OH</b>													
SO <sub>2</sub>	2nd daily max	ns	1	0.065	0.084	0.041	0.046	0.052	0.089	0.058	0.036	0.035	0.038
	Annual mean	ns	1	0.014	0.017	0.01	0.01	0.01	0.013	0.013	0.011	0.009	0.01
Ozone	2nd highest daily max	ns	2	0.114	0.113	0.117	0.107	0.106	0.113	0.121	0.104	0.106	0.114
	4th highest daily max 8-h average	ns	2	0.092	0.095	0.097	0.088	0.085	0.093	0.096	0.085	0.085	0.095
PM <sub>10</sub> *	90th percentile	ns	1	51	51	40	34	39	44	36	39	37	37
	Weighted annual mean	down	1	29.2	27.3	25.3	22.7	23.1	23.1	20.5	21.4	22.1	23.5
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	42.8	38	42.1	37
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	17.27	17.68	17.4	15.76
<b>PENSACOLA, FL</b>													
SO <sub>2</sub>	2nd daily max	ns	2	0.047	0.045	0.023	0.024	0.031	0.023	0.024	0.027	0.025	0.021
	Annual mean	down	2	0.006	0.005	0.003	0.004	0.004	0.004	0.004	0.004	0.003	0.003
Ozone	2nd highest daily max	ns	2	0.102	0.108	0.117	0.098	0.11	0.121	0.102	0.113	0.093	0.09
	4th highest daily max 8-h average	ns	2	0.08	0.085	0.083	0.079	0.085	0.095	0.084	0.09	0.079	0.073
PM <sub>10</sub> *	90th percentile	ns	2	39	34.5	31.5	31	41.5	37	38	32.5	30	27.5
	Weighted annual mean	down	2	25.8	23	21.7	20	23.7	21.9	23.25	21.8	20.9	17.7
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	29.8	31.8	22.2	22.4
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	14.82	13.93	11.39	10.95
<b>PEORIA-PEKIN, IL</b>													
	Maximum quarterly value	down	1	0.032	0.019	0.026	0.024	0.019	0.017	0.017	0.018	0.019	0.013
CO	2nd max (daily-non-overlapping 8-h)	down	1	7.3	5.7	5.6	4.6	4.7	5.8	4.6	3.4	3.5	3.1
SO <sub>2</sub>	2nd daily max	ns	2	0.039	0.05	0.084	0.045	0.042	0.041	0.036	0.05	0.054	0.043
	Annual mean	down	2	0.007	0.007	0.007	0.007	0.007	0.007	0.006	0.006	0.006	0.005
Ozone	2nd highest daily max	ns	2	0.079	0.089	0.094	0.089	0.086	0.085	0.098	0.083	0.081	0.098
	4th highest daily max 8-h average	ns	2	0.064	0.076	0.082	0.081	0.072	0.076	0.082	0.072	0.074	0.083
PM <sub>10</sub> *	90th percentile	ns	1	35	39	38	31	41	42	40	43	36	36
	Weighted annual mean	ns	1	19.6	20.6	20.1	20.6	26.2	25.5	23.1	24.3	22.3	21.2
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	38	32.2	36.4	33.6
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	16.04	14.85	13.94	13.88
<b>PHILADELPHIA, PA-NJ</b>													
	Maximum quarterly value	down	2	0.076	0.06	0.058	0.05	0.045	0.037	0.039	0.049	0.031	0.03
CO	2nd max (daily-non-overlapping 8-h)	down	5	5.4	6.16	4.36	4.72	4	3.6	3.86	3.58	3.34	2.36
SO <sub>2</sub>	2nd daily max	down	4	0.029	0.04	0.028	0.026	0.026	0.022	0.022	0.024	0.025	0.023
	Annual mean	down	4	0.008	0.009	0.007	0.007	0.007	0.007	0.006	0.007	0.006	0.006
NO <sub>2</sub>	Annual mean	down	4	0.024	0.027	0.024	0.025	0.023	0.023	0.022	0.022	0.022	0.021
Ozone	2nd highest daily max	ns	5	0.121	0.115	0.131	0.12	0.117	0.115	0.126	0.113	0.116	0.126
	4th highest daily max 8-h average	ns	5	0.096	0.088	0.106	0.091	0.095	0.093	0.099	0.09	0.094	0.104
PM <sub>10</sub> *	90th percentile	down	2	48	59	48.5	49	49	42	37.5	42	42	38.5
	Weighted annual mean	down	2	28.25	32.75	29.25	29.9	28.25	24.5	20.35	23.825	24.1	23.25
PM <sub>2.5</sub> *	98th percentile	NA	4	ND	ND	ND	ND	ND	ND	34.8	36.975	37.975	36.025
	Weighted annual mean	NA	4	ND	ND	ND	ND	ND	ND	13.353	14.895	15.244	14.148
<b>PHOENIX-MESA, AZ</b>													
CO	2nd max (daily-non-overlapping 8-h)	down	2	6.5	7.25	6.1	5.95	5.2	6.35	5.5	5.15	4.55	4.1
SO <sub>2</sub>	2nd daily max	ns	1	0.008	0.008	0.008	0.017	0.009	0.011	0.012	0.012	0.009	0.01
	Annual mean	ns	1	0.002	0.002	0.002	0.003	0.004	0.004	0.003	0.003	0.003	0.003
NO <sub>2</sub>	Annual mean	ns	1	0.029	0.029	0.029	0.029	0.028	0.028	0.031	0.029	0.026	0.029
Ozone	2nd highest daily max	ns	2	0.116	0.108	0.123	0.111	0.105	0.113	0.109	0.103	0.098	0.11
	4th highest daily max 8-h average	ns	2	0.081	0.077	0.088	0.088	0.085	0.088	0.088	0.084	0.081	0.085
PM <sub>10</sub> *	90th percentile	ns	2	56	62	64.5	64	67	59.5	74	70	54	62.5
	Weighted annual mean	ns	2	38.55	38.85	39.9	39.9	43.75	34.15	42.95	44.9	36.1	45.15

**Table A-16.** Metropolitan Statistical Area Air Quality Trends, 1993–2002 (continued)

Metropolitan Statistical Area	Trend	#Trend Sites	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
<b>PITTSBURGH, PA</b>												
CO	Maximum quarterly value	ns	1	0.134	0.171	0.115	0.058	0.075	0.061	0.081	0.07	0.057
CO	2nd max (daily-non-overlapping 8-h)	down	1	5.4	7	5.9	4.3	3.8	3.8	3.9	3.2	3.4
SO <sub>2</sub>	2nd daily max	down	2	0.077	0.087	0.073	0.053	0.068	0.073	0.065	0.064	0.063
NO <sub>2</sub>	Annual mean	down	2	0.016	0.016	0.013	0.013	0.013	0.013	0.013	0.011	0.012
Ozone	Annual mean	down	1	0.024	0.027	0.023	0.024	0.022	0.026	0.024	0.022	0.021
Ozone	2nd highest daily max	ns	3	0.116	0.114	0.124	0.107	0.114	0.114	0.128	0.098	0.105
Ozone	4th highest daily max 8-h average	ns	3	0.094	0.097	0.104	0.09	0.094	0.095	0.096	0.082	0.089
PM <sub>10</sub> *	90th percentile	down	2	79	82	71	68	67.5	70	61.5	65.5	67
PM <sub>10</sub> *	Weighted annual mean	down	2	38.45	43.3	37.1	35.55	34.3	35.75	32.2	34.05	35.85
PM <sub>2.5</sub> *	98th percentile	NA	2	ND	ND	ND	ND	ND	ND	49.3	49.15	52.8
PM <sub>2.5</sub> *	Weighted annual mean	NA	2	ND	ND	ND	ND	ND	ND	18.8	18.275	19.815
<b>PITTSFIELD, MA</b>												
Ozone	2nd highest daily max	ns	1	0.112	0.085	0.086	0.108	0.087	0.078	0.092	0.088	0.112
Ozone	4th highest daily max 8-h average	ns	1	0.083	0.074	0.072	0.081	0.078	0.069	0.075	0.072	0.092
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	47.7	28.8	33.8
PM <sub>2.5</sub> *	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	12.78	11.8	13.35
<b>POCATELLO, ID</b>												
SO <sub>2</sub>	2nd daily max	ns	1	0.037	0.037	0.037	0.03	0.034	0.034	0.046	0.036	0.037
SO <sub>2</sub>	Annual mean	ns	1	0.007	0.007	0.007	0.006	0.005	0.006	0.007	0.008	0.007
PM <sub>10</sub> *	90th percentile	ns	1	56	50	40	46	39	37	48	45	48
PM <sub>10</sub> *	Weighted annual mean	ns	1	39.4	30.5	23.2	24.4	22.9	22.4	25.3	24.9	26
PM <sub>2.5</sub> *	98th percentile	NA	2	ND	ND	ND	ND	ND	ND	72.25	51.1	36.2
PM <sub>2.5</sub> *	Weighted annual mean	NA	2	ND	ND	ND	ND	ND	ND	9.64	10.46	9.32
<b>PONCE, PR</b>												
PM <sub>2.5</sub> *	98th percentile	NA	2	ND	ND	ND	ND	ND	ND	17.35	17.95	14.25
PM <sub>2.5</sub> *	Weighted annual mean	NA	2	ND	ND	ND	ND	ND	ND	8.19	7.27	7.24
<b>PORTLAND, ME</b>												
Ozone	2nd highest daily max	ns	1	0.112	0.122	0.116	0.1	0.13	0.12	0.105	0.077	0.116
Ozone	4th highest daily max 8-h average	ns	1	0.089	0.088	0.096	0.083	0.103	0.089	0.076	0.067	0.097
PM <sub>10</sub> *	90th percentile	ns	1	51	46	69	43	51	46	33	46	46
PM <sub>10</sub> *	Weighted annual mean	down	1	29	26.5	34.3	27.1	29.3	26.7	21.4	23.7	25.6
PM <sub>2.5</sub> *	98th percentile	NA	2	ND	ND	ND	ND	ND	ND	34.2	27.1	30.5
PM <sub>2.5</sub> *	Weighted annual mean	NA	2	ND	ND	ND	ND	ND	ND	10.01	9.565	10.28
<b>PORTLAND-VANCOUVER, OR-WA</b>												
CO	2nd max (daily-non-overlapping 8-h)	down	1	6.8	7.8	6.3	6.4	6	5.5	6.7	6.2	4.7
Ozone	2nd highest daily max	ns	1	0.082	0.106	0.092	0.124	0.079	0.136	0.094	0.082	0.093
Ozone	4th highest daily max 8-h average	ns	1	0.062	0.078	0.073	0.099	0.062	0.081	0.072	0.065	0.069
PM <sub>10</sub> *	90th percentile	down	3	47.667	41.333	35	33	34.333	31.667	31.333	31.667	27.667
PM <sub>10</sub> *	Weighted annual mean	down	3	26.867	25.2	21.433	21.267	22.667	20.533	19.3	18.667	17.1
PM <sub>2.5</sub> *	98th percentile	NA	4	ND	ND	ND	ND	ND	ND	30.55	32.325	27.325
PM <sub>2.5</sub> *	Weighted annual mean	NA	4	ND	ND	ND	ND	ND	ND	9.115	10.028	8.998
<b>PORTSMOUTH-ROCHESTER, NH-ME</b>												
SO <sub>2</sub>	2nd daily max	down	1	0.019	0.022	0.017	0.015	0.018	0.016	0.019	0.013	0.013
SO <sub>2</sub>	Annual mean	down	1	0.006	0.006	0.004	0.004	0.004	0.004	0.004	0.003	0.003
NO <sub>2</sub>	Annual mean	down	1	0.014	0.013	0.012	0.013	0.013	0.012	0.01	0.011	0.011
Ozone	2nd highest daily max	ns	2	0.117	0.118	0.122	0.097	0.121	0.11	0.107	0.087	0.102
Ozone	4th highest daily max 8-h average	ns	2	0.085	0.087	0.087	0.079	0.091	0.087	0.087	0.069	0.079
PM <sub>10</sub> *	90th percentile	down	1	31	29	27	30	29	27	30	26	26
PM <sub>10</sub> *	Weighted annual mean	down	1	19	15.3	15.3	17.8	17.9	16.4	16.2	14.5	14.5
<b>PROVIDENCE-FALL RIVER-WARWICK, RI-MA</b>												
CO	2nd max (daily-non-overlapping 8-h)	down	1	5.4	6.7	7	4.4	5.6	4.7	3.9	3.5	3.8
SO <sub>2</sub>	2nd daily max	ns	3	0.034	0.035	0.024	0.03	0.031	0.025	0.024	0.031	0.028
SO <sub>2</sub>	Annual mean	down	3	0.008	0.008	0.006	0.007	0.007	0.006	0.006	0.006	0.005
NO <sub>2</sub>	Annual mean	ns	1	0.022	0.022	0.022	0.025	0.025	0.025	0.024	0.02	0.018
Ozone	2nd highest daily max	ns	1	0.12	0.12	0.131	0.112	0.108	0.098	0.108	0.115	0.128
Ozone	4th highest daily max 8-h average	ns	1	0.089	0.089	0.096	0.083	0.084	0.077	0.08	0.08	0.092
PM <sub>10</sub> *	90th percentile	down	1	46	46	36	40	35	32	35	31	38
PM <sub>10</sub> *	Weighted annual mean	down	1	28.6	28.6	21.5	24.5	24.1	22.5	23.1	21.3	21.7
PM <sub>2.5</sub> *	98th percentile	NA	3	ND	ND	ND	ND	ND	ND	36	28.867	33.267
PM <sub>2.5</sub> *	Weighted annual mean	NA	3	ND	ND	ND	ND	ND	ND	11.75	10.99	12.383

**Table A-16.** Metropolitan Statistical Area Air Quality Trends, 1993–2002 (continued)

Metropolitan Statistical Area	Trend	#Trend Sites	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
<b>PROVO-OREM, UT</b>												
NO <sub>2</sub>	Annual mean	ns	1	0.026	0.024	0.023	0.024	0.023	0.024	0.024	0.024	0.025
Ozone	2nd highest daily max	ns	1	0.084	0.084	0.083	0.097	0.08	0.102	0.096	0.085	0.086
	4th highest daily max 8-h average	ns	1	0.068	0.069	0.068	0.078	0.07	0.083	0.073	0.071	0.067
PM <sub>10</sub> *	90th percentile	ns	2	71.5	55	48.5	56.5	49.5	44	51.5	52	53
	Weighted annual mean	ns	2	37.5	34.25	28.8	33.7	30	26.25	29.6	29.1	31.4
PM <sub>2.5</sub> *	98th percentile	NA	2	ND	ND	ND	ND	ND	ND	31.15	33.75	55.15
	Weighted annual mean	NA	2	ND	ND	ND	ND	ND	ND	9.355	9.925	41.4
<b>PUEBLO, CO</b>												
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	19.9	19.4	16.9
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	7.81	8.52	7.76
<b>RACINE, WI</b>												
CO	2nd max (daily-non-overlapping 8-h)	down	1	4.1	4.3	4.3	3	3.1	3	2.7	2.3	2.1
Ozone	2nd highest daily max	ns	1	0.103	0.114	0.113	0.129	0.117	0.124	0.114	0.096	0.115
	4th highest daily max 8-h average	ns	1	0.08	0.088	0.096	0.083	0.098	0.084	0.093	0.078	0.092
<b>RALEIGH-DURHAM-CHAPEL HILL, NC</b>												
Ozone	2nd highest daily max	ns	4	0.103	0.101	0.102	0.095	0.106	0.115	0.122	0.11	0.103
	4th highest daily max 8-h average	ns	4	0.085	0.081	0.084	0.08	0.09	0.095	0.097	0.086	0.085
PM <sub>10</sub> *	90th percentile	ns	2	39	31	33.5	39	39.5	40	36.5	35.5	37
	Weighted annual mean	ns	2	24.75	21.8	23.3	25.1	24.6	24.4	22.15	23.05	23.15
PM <sub>2.5</sub> *	98th percentile	NA	4	ND	ND	ND	ND	ND	ND	35.375	31.125	30.85
	Weighted annual mean	NA	4	ND	ND	ND	ND	ND	ND	15.258	14.843	30.025
<b>RAPID CITY, SD</b>												
PM <sub>2.5</sub> *	98th percentile	NA	3	ND	ND	ND	ND	ND	ND	25	23.133	19.533
	Weighted annual mean	NA	3	ND	ND	ND	ND	ND	ND	9.09	7.833	7.917
<b>READING, PA</b>												
SO <sub>2</sub>	2nd daily max	down	1	0.027	0.037	0.032	0.037	0.028	0.022	0.027	0.028	0.025
	Annual mean	down	1	0.009	0.01	0.009	0.009	0.008	0.009	0.008	0.008	0.007
NO <sub>2</sub>	Annual mean	down	1	0.021	0.023	0.021	0.022	0.021	0.021	0.021	0.02	0.019
Ozone	2nd highest daily max	ns	2	0.108	0.104	0.112	0.105	0.115	0.105	0.126	0.103	0.122
	4th highest daily max 8-h average	ns	2	0.088	0.084	0.093	0.086	0.092	0.091	0.101	0.08	0.095
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	35.7	37.5	43
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	13.51	16.87	48.5
<b>REDDING, CA</b>												
PM <sub>10</sub> *	90th percentile	ns	1	47	47	47	39	37	46	40	37	41
	Weighted annual mean	ns	1	29.9	29.9	25.2	24.1	22.2	23.4	28.5	23.6	23.6
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	55	42	29
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	11.53	10.355	38
<b>RENO, NV</b>												
CO	2nd max (daily-non-overlapping 8-h)	down	3	6.067	7.633	5.533	6.467	6.533	6.033	7	4.633	4.5
Ozone	2nd highest daily max	ns	2	0.087	0.088	0.083	0.096	0.084	0.093	0.094	0.083	0.087
	4th highest daily max 8-h average	ns	2	0.063	0.07	0.069	0.074	0.068	0.075	0.075	0.067	0.076
PM <sub>10</sub> *	90th percentile	ns	3	81.333	74	58	61	67	64.333	62	64.333	64.667
	Weighted annual mean	down	3	45.767	41.767	36.567	34.167	37.133	35.467	40.233	33.4	34.367
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	32.8	31.4	36.4
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	9.93	8.92	25.9
<b>RICHLAND-KENNEWICK-PASCO, WA</b>												
PM <sub>10</sub> *	90th percentile	up	1	27	27	34	38	33	30	42	40	38
	Weighted annual mean	up	1	15.1	15.1	17.8	20.3	19.4	19.9	20.8	24	22
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	31.2	18.2	22.5
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	8.4	6.76	9.12
<b>RICHMOND-PETERSBURG, VA</b>												
CO	2nd max (daily-non-overlapping 8-h)	down	1	3	2.7	2.3	2.5	2.5	1.7	1.9	2	2.3
SO <sub>2</sub>	2nd daily max	down	1	0.032	0.024	0.023	0.022	0.017	0.019	0.017	0.017	0.019
	Annual mean	down	1	0.007	0.006	0.005	0.006	0.006	0.006	0.005	0.006	0.005
NO <sub>2</sub>	Annual mean	ns	1	0.01	0.012	0.011	0.01	0.012	0.012	0.011	0.011	0.012
Ozone	2nd highest daily max	ns	1	0.132	0.101	0.106	0.104	0.123	0.116	0.133	0.094	0.119
	4th highest daily max 8-h average	ns	1	0.1	0.082	0.088	0.084	0.1	0.092	0.097	0.076	0.089
PM <sub>10</sub> *	90th percentile	down	1	45	36	43	44	39	39	28	38	35
	Weighted annual mean	down	1	24.2	22.1	24.3	23.8	22.7	23.4	18.6	22.2	20.4
PM <sub>2.5</sub> *	98th percentile	NA	4	ND	ND	ND	ND	ND	ND	35.467	32.875	33.1
	Weighted annual mean	NA	4	ND	ND	ND	ND	ND	ND	14.117	14.515	30.35

**Table A-16.** Metropolitan Statistical Area Air Quality Trends, 1993–2002 (continued)

Metropolitan Statistical Area	Trend	#Trend Sites	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	
<b>RIVERSIDE-SAN BERNARDINO, CA</b>													
CO	Maximum quarterly value	ns	1	0.036	0.026	0.033	0.031	0.045	0.046	0.038	0.032	0.029	0.027
CO	2nd max (daily-non-overlapping 8-h)	down	2	5.55	5.8	5.5	4.8	4.95	4.4	4	4	3.45	3.25
NO <sub>2</sub>	Annual mean	down	2	0.036	0.036	0.038	0.033	0.03	0.029	0.032	0.03	0.031	0.03
Ozone	2nd highest daily max	down	3	0.223	0.218	0.216	0.195	0.163	0.205	0.143	0.16	0.158	0.148
Ozone	4th highest daily max 8-h average	down	3	0.162	0.153	0.151	0.138	0.118	0.152	0.112	0.115	0.121	0.115
PM <sub>10</sub> *	90th percentile	down	2	81.5	71.5	77	67	68.5	66	73	64.5	71.5	66
PM <sub>10</sub> *	Weighted annual mean	ns	2	51.35	45.8	44.45	43.3	43.35	41.65	49.55	41.6	46.2	44.3
PM <sub>2.5</sub> *	98th percentile	NA	3	ND	ND	ND	ND	ND	ND	70.15	55.633	53.7	53.333
PM <sub>2.5</sub> *	Weighted annual mean	NA	3	ND	ND	ND	ND	ND	ND	28.875	21.85	23.547	22.79
<b>ROANOKE, VA</b>													
CO	2nd max (daily-non-overlapping 8-h)	down	1	4.5	5.7	5.2	5.9	4.3	3.9	3.7	3.1	3.4	3
SO <sub>2</sub>	2nd daily max	ns	1	0.018	0.011	0.01	0.014	0.013	0.009	0.01	0.014	0.009	0.009
NO <sub>2</sub>	Annual mean	down	1	0.004	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
NO <sub>2</sub>	Annual mean	ns	1	0.015	0.013	0.013	0.013	0.013	0.014	0.012	0.011	0.014	0.013
Ozone	2nd highest daily max	ns	1	0.103	0.102	0.093	0.084	0.102	0.126	0.105	0.095	0.101	0.107
Ozone	4th highest daily max 8-h average	ns	1	0.084	0.084	0.079	0.073	0.084	0.099	0.089	0.081	0.089	0.091
PM <sub>10</sub> *	90th percentile	down	1	63	63	64	71	64	54	54	57	42	47
PM <sub>10</sub> *	Weighted annual mean	down	1	40	40	40.3	37.9	34.6	33.3	34.7	31.5	26.6	28.2
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	31.8	35.5	34.2	36
PM <sub>2.5</sub> *	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	13.82	15.52	15.1	15.09
<b>ROCHESTER, NY</b>													
CO	2nd max (daily-non-overlapping 8-h)	down	2	3.15	4.5	3.15	3.7	1.9	2.7	2.5	2.2	1.75	2.1
SO <sub>2</sub>	2nd daily max	down	2	0.041	0.043	0.038	0.033	0.038	0.053	0.03	0.021	0.025	0.016
SO <sub>2</sub>	Annual mean	down	2	0.01	0.011	0.01	0.009	0.009	0.009	0.006	0.006	0.007	0.005
Ozone	2nd highest daily max	ns	1	0.092	0.099	0.103	0.083	0.097	0.088	0.096	0.08	0.099	0.114
Ozone	4th highest daily max 8-h average	ns	1	0.074	0.079	0.09	0.068	0.085	0.077	0.088	0.073	0.084	0.098
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	ND	28.4	37.5	31.9
PM <sub>2.5</sub> *	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	ND	11.76	11.66	11.22
<b>ROCKFORD, IL</b>													
CO	2nd max (daily-non-overlapping 8-h)	down	1	4	4	4.5	3.2	3.7	3.6	3.8	2.9	2.9	2.4
Ozone	2nd highest daily max	ns	1	0.079	0.101	0.104	0.089	0.08	0.085	0.093	0.084	0.086	0.091
Ozone	4th highest daily max 8-h average	ns	1	0.062	0.079	0.084	0.077	0.071	0.073	0.082	0.069	0.078	0.079
<b>ROCKY MOUNT, NC</b>													
Ozone	2nd highest daily max	ns	1	0.11	0.104	0.097	0.091	0.106	0.107	0.104	0.106	0.099	0.109
Ozone	4th highest daily max 8-h average	ns	1	0.092	0.088	0.084	0.08	0.089	0.09	0.092	0.085	0.085	0.095
<b>SACRAMENTO, CA</b>													
CO	Maximum quarterly value	down	1	0.01	0.007	0.005	0.006	0.005	0.046	0.005	0.005	0.005	0.005
CO	2nd max (daily-non-overlapping 8-h)	down	3	6.5	6.633	5	5	4.8	4.933	4.9	3.767	4.167	3.3
SO <sub>2</sub>	2nd daily max	up	2	0.004	0.005	0.005	0.004	0.005	0.01	0.008	0.01	0.01	0.007
SO <sub>2</sub>	Annual mean	up	2	0.001	0.001	0.002	0.002	0.002	0.002	0.003	0.003	0.002	0.002
NO <sub>2</sub>	Annual mean	ns	3	0.018	0.016	0.017	0.017	0.015	0.016	0.017	0.016	0.016	0.016
Ozone	2nd highest daily max	ns	3	0.117	0.105	0.131	0.12	0.095	0.14	0.113	0.113	0.113	0.117
Ozone	4th highest daily max 8-h average	ns	3	0.085	0.086	0.093	0.093	0.078	0.093	0.088	0.086	0.087	0.094
PM <sub>10</sub> *	90th percentile	ns	3	57.667	44.333	53.333	39.667	37	45	54.333	43	46.667	43
PM <sub>10</sub> *	Weighted annual mean	ns	3	30.6	28.367	26.7	24.2	23.033	23.833	29.333	24.733	27.167	26.767
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	67	49	53	63
PM <sub>2.5</sub> *	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	16.58	12.37	11.63	14.33
<b>ST. CLOUD, MN</b>													
CO	2nd max (daily-non-overlapping 8-h)	down	1	5	6.4	4.4	4	4	3.8	3.3	2.7	2.6	2.9
<b>ST. JOSEPH, MO</b>													
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	28.2	26.8	29	30.9
PM <sub>2.5</sub> *	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	12.48	11.89	12.9	13
<b>ST. LOUIS, MO-IL</b>													
CO	2nd max (daily-non-overlapping 8-h)	ns	1	3.6	3.8	3.2	3.9	3.7	4	2.3	2.2	2.6	6.9
SO <sub>2</sub>	2nd daily max	ns	3	0.048	0.051	0.047	0.059	0.042	0.042	0.042	0.038	0.043	0.045
SO <sub>2</sub>	Annual mean	down	3	0.011	0.012	0.01	0.011	0.009	0.009	0.009	0.007	0.006	0.006
NO <sub>2</sub>	Annual mean	ns	1	0.024	0.028	0.026	0.025	0.025	0.026	0.027	0.026	0.025	0.023
Ozone	2nd highest daily max	ns	3	0.118	0.126	0.124	0.111	0.106	0.115	0.126	0.108	0.103	0.118
Ozone	4th highest daily max 8-h average	ns	3	0.085	0.095	0.095	0.089	0.083	0.091	0.1	0.083	0.086	0.097
PM <sub>2.5</sub> *	98th percentile	NA	2	ND	ND	ND	ND	ND	ND	35.85	33.3	33.55	44.7
PM <sub>2.5</sub> *	Weighted annual mean	NA	2	ND	ND	ND	ND	ND	ND	16.165	16.295	15.895	16.38

**Table A-16.** Metropolitan Statistical Area Air Quality Trends, 1993–2002 (continued)

Metropolitan Statistical Area	Trend	#Trend Sites	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	
<b>SALEM, OR</b>													
Ozone	2nd highest daily max	ns	1	0.1	0.1	0.1	0.117	0.081	0.112	0.082	0.074	0.081	0.096
	4th highest daily max 8-h average	ns	1	0.064	0.064	0.064	0.092	0.061	0.077	0.065	0.059	0.057	0.063
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	26.3	28.7	32.7	34.8
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	7.51	8.94	8.15	8.15
<b>SALINAS, CA</b>													
Ozone	2nd highest daily max	down	1	0.09	0.09	0.08	0.089	0.078	0.073	0.074	0.084	0.078	0.077
	4th highest daily max 8-h average	ns	1	0.077	0.068	0.064	0.07	0.061	0.057	0.063	0.063	0.063	0.066
PM <sub>10</sub> *	90th percentile	ns	1	25	24	23	23	21	17	26	19	23	23
	Weighted annual mean	ns	1	15.7	15.3	13.4	14.2	14.3	12.2	15.4	12.7	14.6	14.4
<b>SALT LAKE CITY-OGDEN, UT</b>													
CO	Maximum quarterly value	ns	1	0.096	0.054	0.066	0.032	0.105	0.094	0.082	0.068	0.042	0.055
SO <sub>2</sub>	2nd max (daily-non-overlapping 8-h)	down	2	5.95	5.7	5	6.55	5.95	5.3	5.1	4.55	3.95	3.4
	2nd daily max	down	1	0.052	0.014	0.012	0.021	0.011	0.01	0.01	0.013	0.013	0.01
	Annual mean	down	1	0.009	0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
NO <sub>2</sub>	Annual mean	ns	2	0.022	0.021	0.021	0.023	0.022	0.021	0.023	0.022	0.022	0.021
Ozone	2nd highest daily max	ns	2	0.104	0.109	0.115	0.114	0.102	0.122	0.107	0.096	0.105	0.107
	4th highest daily max 8-h average	ns	2	0.079	0.081	0.083	0.085	0.077	0.094	0.08	0.075	0.079	0.085
PM <sub>10</sub> *	90th percentile	ns	2	80	66	65	79	63	56	69	66	64	66.5
	Weighted annual mean	ns	2	43.9	38.65	36.75	41.35	36.65	32.9	36.95	37.65	37.95	36.65
PM <sub>2.5</sub> *	98th percentile	NA	4	ND	ND	ND	ND	ND	ND	42.925	50.125	61.55	56.725
	Weighted annual mean	NA	4	ND	ND	ND	ND	ND	ND	10.315	11.575	12.438	13.295
<b>SAN ANTONIO, TX</b>													
CO	2nd max (daily-non-overlapping 8-h)	down	1	5.3	3.3	4.3	4.5	4.4	4.6	4.2	2.7	2.7	2.6
Ozone	2nd highest daily max	ns	1	0.111	0.101	0.121	0.11	0.103	0.107	0.109	0.094	0.089	0.126
	4th highest daily max 8-h average	ns	1	0.084	0.083	0.095	0.082	0.084	0.089	0.091	0.077	0.078	0.104
PM <sub>2.5</sub> *	98th percentile	NA	2	ND	ND	ND	ND	ND	ND	ND	22	17.7	26.15
	Weighted annual mean	NA	2	ND	ND	ND	ND	ND	ND	ND	9.365	8.2	9.005
<b>SAN DIEGO, CA</b>													
CO	Maximum quarterly value	ns	2	0.032	0.017	0.026	0.023	0.024	0.018	0.028	0.035	0.045	0.024
SO <sub>2</sub>	2nd max (daily-non-overlapping 8-h)	down	5	5.14	5.42	4.74	4.96	4.26	4.02	4.28	4.18	4.22	3.32
	2nd daily max	ns	3	0.009	0.013	0.012	0.015	0.012	0.011	0.012	0.01	0.01	0.009
	Annual mean	ns	3	0.002	0.003	0.003	0.004	0.003	0.003	0.003	0.003	0.003	0.004
NO <sub>2</sub>	Annual mean	ns	5	0.019	0.02	0.021	0.019	0.019	0.019	0.021	0.019	0.018	0.019
Ozone	2nd highest daily max	down	5	0.122	0.111	0.119	0.106	0.115	0.106	0.098	0.097	0.099	0.096
	4th highest daily max 8-h average	down	5	0.089	0.084	0.084	0.084	0.082	0.082	0.072	0.074	0.074	0.074
PM <sub>10</sub> *	90th percentile	ns	3	57.667	60.667	70.667	49.667	54.667	49.667	61	54	62	59
	Weighted annual mean	ns	3	37.1	39.9	37.967	32.067	35.5	30.733	38.267	36.733	36.933	38.933
PM <sub>2.5</sub> *	98th percentile	NA	3	ND	ND	ND	ND	ND	ND	40.067	43.133	37.267	36.967
	Weighted annual mean	NA	3	ND	ND	ND	ND	ND	ND	16.91	14.85	16.523	15.157
<b>SAN FRANCISCO, CA</b>													
CO	Maximum quarterly value	down	1	0.026	0.016	0.027	0.014	0.02	0.013	0.012	0.011	0.01	0.014
SO <sub>2</sub>	2nd max (daily-non-overlapping 8-h)	down	3	4.3	3.967	3.2	3.5	3.167	3.5	3.333	2.767	2.867	2.233
	2nd daily max	ns	1	0.01	0.005	0.005	0.007	0.006	0.006	0.006	0.007	0.007	0.005
	Annual mean	ns	1	0.002	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
NO <sub>2</sub>	Annual mean	down	3	0.022	0.021	0.019	0.02	0.018	0.018	0.019	0.018	0.018	0.018
Ozone	2nd highest daily max	ns	3	0.083	0.072	0.094	0.082	0.074	0.063	0.082	0.067	0.074	0.069
	4th highest daily max 8-h average	ns	3	0.048	0.049	0.061	0.055	0.048	0.045	0.052	0.045	0.05	0.049
PM <sub>10</sub> *	90th percentile	ns	3	40.333	42.667	35	35	32.333	34.333	43.667	36.333	40.333	35.667
	Weighted annual mean	down	3	25.967	25.267	21.733	21.867	23.1	21.4	24.333	21.633	23	21.2
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	53.4	36.9	46.1	36.3
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	12.13	10.9	11.31	12.6
<b>SAN JOSE, CA</b>													
CO	Maximum quarterly value	down	1	0.03	0.019	0.018	0.013	0.012	0.016	0.012	0.014	0.011	0.011
NO <sub>2</sub>	2nd max (daily-non-overlapping 8-h)	ns	1	6.7	7.5	5.8	5.8	5.6	6.3	6.2	6.9	5	5
Ozone	Annual mean	down	1	0.027	0.028	0.027	0.025	0.025	0.025	0.026	0.025	0.024	0.024
	2nd highest daily max	ns	2	0.1	0.102	0.12	0.109	0.087	0.121	0.107	0.092	0.106	0.09
PM <sub>10</sub> *	4th highest daily max 8-h average	down	2	0.074	0.073	0.084	0.08	0.064	0.078	0.071	0.06	0.07	0.064
	90th percentile	ns	1	48	57	48	36	36	41	47	52	46	46
PM <sub>2.5</sub> *	Weighted annual mean	ns	1	27.6	30.4	25.3	24.5	25.4	25.1	28.7	26.8	28.9	28.9
<b>San Juan-Bayamon, PR</b>													
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	16.8	18.1	14.9	11.4
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	7.51	7.26	6.83	6.43

**Table A-16.** Metropolitan Statistical Area Air Quality Trends, 1993–2002 (continued)

Metropolitan Statistical Area	Trend	#Trend Sites	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	
<b>SAN LUIS OBISPO-ATASCADERO-PASO ROBLES</b>													
CO	2nd max (daily-non-overlapping 8-h)	down	1	3.1	3.1	2.4	2.3	2.3	2	2.9	2.2	1.7	1.6
SO <sub>2</sub>	2nd daily max	ns	1	0.028	0.028	0.028	0.029	0.026	0.03	0.027	0.028	0.028	0.021
	Annual mean	down	1	0.006	0.006	0.006	0.006	0.005	0.005	0.005	0.005	0.005	0.004
NO <sub>2</sub>	Annual mean	down	2	0.014	0.014	0.012	0.012	0.012	0.012	0.013	0.012	0.011	0.01
Ozone	2nd highest daily max	ns	3	0.088	0.087	0.091	0.1	0.079	0.093	0.085	0.078	0.085	0.083
	4th highest daily max 8-h average	ns	3	0.067	0.07	0.071	0.079	0.066	0.076	0.069	0.065	0.068	0.07
PM <sub>10</sub> *	90th percentile	ns	2	45.5	37	39	31.5	29	28	34	36.5	30.5	30.5
	Weighted annual mean	down	2	23.2	21.15	22.25	19.4	20.75	17.35	20.75	19.95	19.65	19.8
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	26.9	41	50.7	25.7
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	9.32	10.31	10.12	9.23
<b>SANTA BARBARA-SANTA MARIA-LOMPOC, CA M</b>													
CO	2nd max (daily-non-overlapping 8-h)	down	3	1.867	1.933	1.333	1.267	1.267	1.267	1.267	1.2	1.333	1.1
SO <sub>2</sub>	2nd daily max	down	4	0.004	0.004	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002
	Annual mean	ns	4	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
NO <sub>2</sub>	Annual mean	down	5	0.007	0.007	0.007	0.007	0.007	0.006	0.007	0.007	0.006	0.006
Ozone	2nd highest daily max	down	5	0.103	0.101	0.118	0.114	0.089	0.093	0.083	0.088	0.085	0.082
	4th highest daily max 8-h average	down	5	0.079	0.077	0.081	0.084	0.073	0.07	0.068	0.069	0.07	0.067
PM <sub>10</sub> *	90th percentile	ns	3	35.333	33	28.667	29.667	31.333	29.667	29.667	33.333	28.667	29
	Weighted annual mean	ns	3	21.1	20.733	18.4	17.267	20.067	17.633	18.9	20.433	18.067	17.933
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	ND	19.3	23.4	19.4
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	ND	9.77	10.4	9.52
<b>SANTA CRUZ-WATSONVILLE, CA</b>													
CO	2nd max (daily-non-overlapping 8-h)	ns	1	1	1.2	0.8	0.7	0.7	0.8	0.7	0.7	0.9	0.8
SO <sub>2</sub>	2nd daily max	ns	1	0.006	0.006	0.008	0.003	0.002	0.003	0.002	0.003	0.006	0.007
	Annual mean	ns	1	0.002	0.002	0.001	0.002	0.001	0.001	0.001	0.001	0.001	0.001
NO <sub>2</sub>	Annual mean	down	1	0.006	0.006	0.005	0.005	0.004	0.004	0.005	0.005	0.005	0.005
Ozone	2nd highest daily max	ns	2	0.075	0.074	0.073	0.086	0.071	0.074	0.078	0.074	0.075	0.074
	4th highest daily max 8-h average	ns	2	0.06	0.056	0.058	0.062	0.057	0.059	0.064	0.057	0.059	0.058
PM <sub>10</sub> *	90th percentile	ns	1	49	49	65	61	65	47	53	41	50	45
	Weighted annual mean	ns	1	31.1	31.1	36.4	32.8	36.9	28.5	30.9	26.2	28.7	26.8
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	21.9	17.9	23.1	22
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	9.2	7.93	9.13	8.6
<b>SANTA FE, NM</b>													
CO	2nd max (daily-non-overlapping 8-h)	down	1	3.4	2.7	2.3	2.2	2.1	2	1.7	1.7	2.1	1.5
PM <sub>10</sub> *	90th percentile	ns	2	21.5	21	17.5	20	19	20	18.5	19.5	17	21
	Weighted annual mean	ns	2	14.4	13.25	12.25	13.45	13	13.6	12.95	12.05	12.15	13.75
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	11	9.5	10.1	13.9
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	4.89	4.9	4.73	4.94
<b>SANTA ROSA, CA</b>													
CO	2nd max (daily-non-overlapping 8-h)	down	1	3.8	3.2	2.4	3	3.1	3	3.3	2.7	2.3	2
NO <sub>2</sub>	Annual mean	down	1	0.016	0.015	0.015	0.014	0.013	0.015	0.014	0.013	0.013	0.013
Ozone	2nd highest daily max	ns	2	0.085	0.085	0.089	0.08	0.089	0.084	0.096	0.07	0.083	0.075
	4th highest daily max 8-h average	ns	2	0.061	0.06	0.065	0.062	0.064	0.063	0.073	0.056	0.059	0.058
PM <sub>10</sub> *	90th percentile	ns	3	33	28.667	25.333	26	23.667	24.667	32.333	27	28.333	24.667
	Weighted annual mean	ns	3	19.133	18.1	15.033	15.633	15.567	14.7	18.567	14.8	16.833	15.867
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	44.5	36.8	41.4	42.4
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	12.11	10.31	10.8	10.54
<b>SARASOTA-BRADENTON, FL</b>													
CO	2nd max (daily-non-overlapping 8-h)	down	1	6.5	5.3	5.9	5.1	5.3	5.6	4.95	4.3	3.4	3.4
SO <sub>2</sub>	2nd daily max	ns	1	0.012	0.012	0.012	0.015	0.012	0.014	0.011	0.019	0.013	0.013
	Annual mean	ns	1	0.003	0.003	0.002	0.002	0.002	0.003	0.002	0.002	0.002	0.002
Ozone	2nd highest daily max	ns	2	0.102	0.095	0.097	0.094	0.104	0.12	0.111	0.106	0.109	0.088
	4th highest daily max 8-h average	ns	2	0.078	0.079	0.076	0.075	0.08	0.089	0.084	0.084	0.084	0.072
PM <sub>10</sub> *	90th percentile	ns	2	37	34.5	30.5	27	32	33	34	33	30.5	29
	Weighted annual mean	ns	2	25.25	21.5	19.75	19.05	21.1	21.25	21.55	22.2	21.6	18.2
PM <sub>2.5</sub> *	98th percentile	NA	2	ND	ND	ND	ND	ND	ND	30.75	26.9	28.6	21.7
	Weighted annual mean	NA	2	ND	ND	ND	ND	ND	ND	11.095	10.64	10.205	8.885

**Table A-16.** Metropolitan Statistical Area Air Quality Trends, 1993–2002 (continued)

Metropolitan Statistical Area	Trend	#Trend Sites	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
<b>SAVANNAH, GA</b>												
SO <sub>2</sub>	2nd daily max	ns	1	0.023	0.023	0.023	0.03	0.024	0.027	0.018	0.024	0.02 0.022
	Annual mean	down	1	0.006	0.006	0.006	0.005	0.004	0.003	0.003	0.003	0.003 0.003
Ozone	2nd highest daily max	ns	1	0.089	0.089	0.089	0.085	0.08	0.097	0.107	0.102	0.085 0.083
	4th highest daily max 8-h average	ns	1	0.073	0.073	0.073	0.072	0.071	0.075	0.083	0.079	0.067 0.065
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	ND	32.1	30.5 27.3
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	ND	15.38	14.71 13.09
<b>SCRANTON-WILKES-BARRE-HAZLETON, PA</b>												
CO	2nd max (daily-non-overlapping 8-h)	down	2	2.9	3.55	2.8	3.8	3.05	2.5	2.15	2.15	2.05 2.1
SO <sub>2</sub>	2nd daily max	ns	2	0.026	0.035	0.036	0.028	0.029	0.024	0.022	0.024	0.029 0.024
	Annual mean	ns	2	0.007	0.007	0.005	0.006	0.007	0.005	0.006	0.005	0.006 0.006
NO <sub>2</sub>	Annual mean	down	2	0.018	0.018	0.016	0.018	0.016	0.015	0.015	0.014	0.015 0.014
Ozone	2nd highest daily max	ns	3	0.111	0.103	0.107	0.109	0.104	0.105	0.111	0.086	0.099 0.121
	4th highest daily max 8-h average	ns	3	0.091	0.086	0.09	0.083	0.089	0.088	0.094	0.074	0.087 0.092
PM <sub>10</sub> *	90th percentile	down	1	35	35	42	36	35	35	32.5	30	33 34
	Weighted annual mean	ns	1	16	16	23.3	21	20.3	20	18.6	17.2	19.5 18.4
PM <sub>2.5</sub> *	98th percentile	NA	2	ND	ND	ND	ND	ND	ND	31.25	32.2	37.05 35.45
	Weighted annual mean	NA	2	ND	ND	ND	ND	ND	ND	11.77	12.16	13.22 12.22
<b>SEATTLE-BELLEVUE-EVERETT, WA</b>												
CO	2nd max (daily-non-overlapping 8-h)	down	1	6.7	7	6.1	6.8	6.5	5.5	5.9	5.2	6.5 5
NO <sub>2</sub>	Annual mean	ns	1	0.019	0.019	0.019	0.02	0.019	0.02	0.019	0.02	0.02 0.019
Ozone	2nd highest daily max	ns	1	0.097	0.106	0.087	0.098	0.072	0.111	0.067	0.08	0.069 0.071
	4th highest daily max 8-h average	down	1	0.06	0.06	0.062	0.073	0.058	0.063	0.054	0.056	0.051 0.054
PM <sub>10</sub> *	90th percentile	down	2	61.5	42.5	46	36	43.5	34.5	33.5	41	30.5 28.5
	Weighted annual mean	down	2	30.7	24.35	25.4	22.75	24.85	19.7	20.6	23.5	19.55 19.1
PM <sub>2.5</sub> *	98th percentile	NA	4	ND	ND	ND	ND	ND	ND	27.5	29.65	26.9 28.225
	Weighted annual mean	NA	4	ND	ND	ND	ND	ND	ND	9.233	10.023	9.208 9.15
<b>SHARON, PA</b>												
SO <sub>2</sub>	2nd daily max	ns	1	0.029	0.047	0.032	0.029	0.032	0.029	0.039	0.024	0.033 0.024
	Annual mean	down	1	0.008	0.008	0.008	0.007	0.007	0.007	0.007	0.007	0.007 0.006
Ozone	2nd highest daily max	ns	1	0.105	0.111	0.113	0.103	0.111	0.121	0.108	0.098	0.113 0.118
	4th highest daily max 8-h average	ns	1	0.083	0.09	0.095	0.09	0.092	0.106	0.091	0.081	0.094 0.103
<b>SHREVEPORT-BOSSIER CITY, LA</b>												
SO <sub>2</sub>	2nd daily max	ns	1	0.011	0.008	0.004	0.004	0.007	0.01	0.006	0.006	0.004 0.005
	Annual mean	ns	1	0.004	0.002	0.001	0.002	0.002	0.003	0.002	0.002	0.002 0.002
Ozone	2nd highest daily max	ns	1	0.122	0.094	0.092	0.096	0.103	0.111	0.108	0.129	0.105 0.091
	4th highest daily max 8-h average	ns	1	0.092	0.08	0.078	0.078	0.083	0.088	0.094	0.093	0.084 0.076
PM <sub>10</sub> *	90th percentile	down	1	45	41	41	31	37	37	37	37	34 35
	Weighted annual mean	down	1	25.3	25.5	24.1	22.1	23.3	22.85	22.4	23.9	21.7 21.3
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	30.9	30.7	28.1 31.8
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	14.16	13.77	13.15 12.37
<b>SIOUX CITY, IA-NE</b>												
PM <sub>10</sub> *	90th percentile	ns	1	40	42	55	72	53	45	48	43	51 46
	Weighted annual mean	ns	1	22.2	22.9	26	32.1	27.9	27.9	28	25.4	28.6 27.1
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	24.9	31.4	24.5 24.7
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	9.92	9.54	10.55 9.63
<b>SIOUX FALLS, SD</b>												
PM <sub>10</sub> *	90th percentile	ns	1	27	42	40	32	39	36	37	33	42 31
	Weighted annual mean	ns	1	18.2	23.5	23.1	22.2	22.6	22.2	22.1	19.8	24.3 20.8
PM <sub>2.5</sub> *	98th percentile	NA	2	ND	ND	ND	ND	ND	ND	32.6	28.35	21.15 22.3
	Weighted annual mean	NA	2	ND	ND	ND	ND	ND	ND	12.21	9.305	10.08 9.09
<b>SOUTH BEND, IN</b>												
Ozone	2nd highest daily max	ns	2	0.087	0.096	0.112	0.107	0.114	0.115	0.103	0.093	0.107 0.123
	4th highest daily max 8-h average	ns	2	0.076	0.084	0.091	0.089	0.091	0.092	0.089	0.08	0.086 0.102
PM <sub>10</sub> *	90th percentile	ns	1	36	43	45	35	30	44	39	30	29 30
	Weighted annual mean	down	1	23.4	28.6	22.9	20.2	17	23.9	23.2	19.4	17.2 16.7
PM <sub>2.5</sub> *	98th percentile	NA	2	ND	ND	ND	ND	ND	ND	ND	33.3	37.2 32.05
	Weighted annual mean	NA	2	ND	ND	ND	ND	ND	ND	ND	13.885	14.635 14.165

**Table A-16.** Metropolitan Statistical Area Air Quality Trends, 1993–2002 (continued)

Metropolitan Statistical Area	Trend	#Trend Sites	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
<b>SPOKANE, WA</b>												
CO	2nd max (daily-non-overlapping 8-h)	down	1	9.8	8.1	8.4	9	6.3	5.6	5.7	5.6	5.2
Ozone	2nd highest daily max	ns	1	0.069	0.085	0.08	0.079	0.083	0.082	0.073	0.082	0.084
	4th highest daily max 8-h average	up	1	0.06	0.068	0.065	0.067	0.068	0.07	0.065	0.068	0.071
PM <sub>10</sub> *	90th percentile	down	2	71	65	55.5	52	48	50	47	47.5	45.5
	Weighted annual mean	down	2	39.25	36.1	29.6	30.95	28.05	28.3	26.35	27.8	27.7
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	30	35.5	28.4
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	10.26	10.95	10.12
<b>SPRINGFIELD, IL</b>												
CO	2nd max (daily-non-overlapping 8-h)	down	1	3.9	3.1	3.2	3	2.1	1.9	2.4	1.7	2.8
SO <sub>2</sub>	2nd daily max	ns	1	0.04	0.05	0.062	0.061	0.043	0.061	0.059	0.035	0.028
	Annual mean	ns	1	0.006	0.006	0.006	0.006	0.006	0.007	0.006	0.005	0.004
Ozone	2nd highest daily max	ns	1	0.106	0.101	0.1	0.098	0.085	0.093	0.099	0.1	0.095
	4th highest daily max 8-h average	ns	1	0.081	0.081	0.08	0.079	0.071	0.078	0.075	0.079	0.073
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	38.8	32.2	33.3
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	15.88	13.36	13.25
<b>SPRINGFIELD, MO</b>												
CO	2nd max (daily-non-overlapping 8-h)	down	1	5.3	5.9	4.1	3.3	4.6	4	3.1	2.6	2.9
SO <sub>2</sub>	2nd daily max	down	2	0.04	0.067	0.021	0.044	0.022	0.021	0.021	0.02	0.024
	Annual mean	ns	2	0.006	0.008	0.003	0.005	0.002	0.004	0.004	0.004	0.003
NO <sub>2</sub>	Annual mean	ns	1	0.011	0.013	0.012	0.011	0.011	0.012	0.013	0.012	0.013
Ozone	2nd highest daily max	ns	2	0.075	0.093	0.098	0.086	0.08	0.09	0.094	0.088	0.089
	4th highest daily max 8-h average	ns	2	0.069	0.072	0.079	0.074	0.066	0.071	0.078	0.076	0.072
PM <sub>10</sub> *	90th percentile	ns	1	30	28	28	26	24	29	28	30	29
	Weighted annual mean	ns	1	17.5	17.6	17.3	17.9	15.4	17.5	17.5	18.4	19.8
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	30.4	26.7	28.5
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	12.22	12.26	12.23
<b>SPRINGFIELD, MA</b>												
CO	2nd max (daily-non-overlapping 8-h)	down	2	6.1	7.5	7.9	7.1	5.1	4.1	4.8	3.8	2.95
SO <sub>2</sub>	2nd daily max	ns	1	0.026	0.041	0.031	0.027	0.02	0.019	0.019	0.023	0.022
	Annual mean	ns	1	0.007	0.008	0.006	0.006	0.005	0.004	0.004	0.005	0.006
NO <sub>2</sub>	Annual mean	ns	2	0.02	0.023	0.019	0.02	0.017	0.016	0.017	0.019	0.019
Ozone	2nd highest daily max	ns	2	0.132	0.125	0.128	0.105	0.12	0.105	0.105	0.098	0.113
	4th highest daily max 8-h average	ns	2	0.097	0.092	0.093	0.082	0.092	0.087	0.085	0.075	0.086
PM <sub>10</sub> *	90th percentile	ns	2	47.5	44	38.5	41	38	42.5	43.5	40.5	45
	Weighted annual mean	ns	2	24.75	27.25	22.65	25	25.15	23.35	26.6	24.4	25.75
PM <sub>2.5</sub> *	98th percentile	NA	2	ND	ND	ND	ND	ND	ND	41.1	33.05	37.6
	Weighted annual mean	NA	2	ND	ND	ND	ND	ND	ND	14.66	11.985	12.485
<b>STAMFORD-NORWALK, CT</b>												
CO	2nd max (daily-non-overlapping 8-h)	down	1	5.2	6.2	5.4	4.1	5.1	3.8	3.8	3	3.1
SO <sub>2</sub>	2nd daily max	ns	1	0.032	0.057	0.032	0.026	0.03	0.025	0.026	0.026	0.035
	Annual mean	down	1	0.008	0.01	0.011	0.005	0.006	0.006	0.006	0.005	0.006
Ozone	2nd highest daily max	ns	1	0.145	0.155	0.136	0.121	0.142	0.113	0.143	0.123	0.13
	4th highest daily max 8-h average	ns	1	0.101	0.107	0.102	0.093	0.101	0.089	0.107	0.084	0.098
PM <sub>10</sub> *	90th percentile	ns	1	44	58	56	50	48	42	44	45	48
	Weighted annual mean	down	1	29.7	36.4	32.1	32.3	31.3	28.1	28.7	30.5	28.3
PM <sub>2.5</sub> *	98th percentile	NA	2	ND	ND	ND	ND	ND	ND	ND	34.85	35.95
	Weighted annual mean	NA	2	ND	ND	ND	ND	ND	ND	ND	12.975	12.54
<b>STEUBENVILLE-WEIRTON, OH-WV</b>												
CO	2nd max (daily-non-overlapping 8-h)	ns	2	7.55	8.9	5.95	4.85	6.1	8.95	3.45	6.4	6.25
SO <sub>2</sub>	2nd daily max	down	4	0.12	0.125	0.063	0.056	0.054	0.045	0.056	0.047	0.043
	Annual mean	ns	4	0.024	0.021	0.011	0.011	0.013	0.012	0.013	0.012	0.011
Ozone	2nd highest daily max	ns	1	0.093	0.096	0.108	0.099	0.097	0.099	0.108	0.088	0.093
	4th highest daily max 8-h average	ns	1	0.081	0.082	0.091	0.082	0.083	0.088	0.091	0.072	0.083
PM <sub>10</sub> *	90th percentile	down	2	75.5	77.5	66.5	69	59	65	54	55	63
	Weighted annual mean	down	2	39.95	40.75	37.9	36.6	31.9	33.1	29.5	30.15	30.85
PM <sub>2.5</sub> *	98th percentile	NA	2	ND	ND	ND	ND	ND	ND	42.75	46.4	45.85
	Weighted annual mean	NA	2	ND	ND	ND	ND	ND	ND	18.145	18.39	17.79

**Table A-16.** Metropolitan Statistical Area Air Quality Trends, 1993–2002 (continued)

Metropolitan Statistical Area	Trend	#Trend Sites	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	
<b>STOCKTON-LODI, CA</b>													
CO	Maximum quarterly value	down	1	0.024	0.015	0.019	0.023	0.014	0.013	0.009	0.012	0.008	0.01
CO	2nd max (daily-non-overlapping 8-h)	down	1	5.1	6.4	4.4	5.3	3.4	5.3	4.5	3.7	3.6	3.2
NO <sub>2</sub>	Annual mean	down	1	0.024	0.024	0.022	0.023	0.022	0.023	0.024	0.021	0.019	0.021
Ozone	2nd highest daily max	ns	2	0.11	0.12	0.125	0.101	0.094	0.108	0.12	0.103	0.102	0.099
	4th highest daily max 8-h average	down	2	0.083	0.086	0.087	0.079	0.073	0.085	0.083	0.078	0.078	0.077
PM <sub>10</sub> *	90th percentile	ns	1	84	63	49	40	47	53	69	60	55	56
	Weighted annual mean	ns	1	39.1	36.9	31.4	27.4	29.7	29.1	36.4	31.5	35.8	34.9
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	79	55	58	50
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	19.56	15.62	13.85	16.68
<b>SYRACUSE, NY</b>													
CO	2nd max (daily-non-overlapping 8-h)	down	1	5.6	6.5	3.3	3.9	4	3	3.1	2.4	2.2	2.1
SO <sub>2</sub>	2nd daily max	down	2	0.018	0.02	0.016	0.014	0.017	0.01	0.014	0.017	0.011	0.012
	Annual mean	down	2	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.003	0.003	0.003
Ozone	2nd highest daily max	ns	2	0.097	0.095	0.1	0.085	0.096	0.093	0.092	0.083	0.096	0.1
	4th highest daily max 8-h average	ns	2	0.083	0.077	0.086	0.073	0.078	0.082	0.084	0.074	0.084	0.088
PM <sub>2.5</sub> *	98th percentile	NA	2	ND	ND	ND	ND	ND	ND	ND	28.65	35.3	38.8
	Weighted annual mean	NA	2	ND	ND	ND	ND	ND	ND	ND	11.545	11.07	11.205
<b>TACOMA, WA</b>													
CO	2nd max (daily-non-overlapping 8-h)	ns	1	6	6	6.3	6.3	6.8	5.8	6.6	5.5	5	4.5
PM <sub>10</sub> *	90th percentile	ns	1	52	41	43	43	50	35	44	48	38	36
	Weighted annual mean	ns	1	28.4	23.1	26	23.1	27.4	21.1	23.1	28.4	20.5	20.8
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	ND	49	41.5	42.9
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	ND	13	11.39	10.56
<b>TALLAHASSEE, FL</b>													
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	31.3	29.5	31.4	28.4
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	13.92	13.64	12.51	12.92
<b>TAMPA-ST. PETERSBURG-CLEARWATER, FL MS</b>													
CO	2nd max (daily-non-overlapping 8-h)	ns	1	3.9	3.5	5	3.9	3.7	4.1	3.3	3.1	3	3.8
SO <sub>2</sub>	2nd daily max	down	2	0.032	0.043	0.032	0.025	0.034	0.027	0.028	0.024	0.026	0.022
	Annual mean	down	2	0.007	0.007	0.006	0.005	0.006	0.006	0.006	0.005	0.005	0.005
NO <sub>2</sub>	Annual mean	ns	1	0.01	0.01	0.011	0.01	0.01	0.011	0.01	0.011	0.011	0.011
Ozone	2nd highest daily max	ns	3	0.091	0.097	0.107	0.111	0.109	0.122	0.111	0.106	0.113	0.091
	4th highest daily max 8-h average	ns	3	0.072	0.076	0.08	0.081	0.084	0.089	0.085	0.082	0.083	0.07
PM <sub>10</sub> *	90th percentile	ns	2	39	40.5	46	49	48.5	45.5	50.5	44.5	44	37
	Weighted annual mean	ns	2	28.35	27.8	28.3	29.85	30.95	29.35	30	29.6	27.6	24.75
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	24.6	30.6	27.9	22.3
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	12.92	12.39	11.7	10.75
<b>TERRE HAUTE, IN</b>													
SO <sub>2</sub>	2nd daily max	ns	1	0.035	0.033	0.035	0.039	0.025	0.032	0.024	0.055	0.058	0.027
	Annual mean	ns	1	0.011	0.012	0.01	0.012	0.006	0.01	0.007	0.012	0.01	0.007
Ozone	2nd highest daily max	ns	1	0.088	0.106	0.099	0.112	0.096	0.099	0.093	0.088	0.096	0.096
	4th highest daily max 8-h average	ns	1	0.074	0.094	0.085	0.098	0.083	0.084	0.082	0.075	0.082	0.082
PM <sub>10</sub> *	90th percentile	ns	2	48.5	42.5	53	39	40.5	43	45	44	39.5	36
	Weighted annual mean	down	2	28.15	27.7	29.5	24.95	24.8	26.1	24.75	24.35	21.85	21.15
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	ND	34.2	38.4	40.2
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	ND	15.72	15.18	14.55
<b>TEXARKANA, TX-TEXARKANA, AR</b>													
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	ND	31	29.6	35.7
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	ND	14.68	15.09	13.21
<b>TOLEDO, OH</b>													
CO	Maximum quarterly value	down	1	0.63	0.7	0.43	0.437	0.417	0.35	0.263	0.33	0.273	0.13
SO <sub>2</sub>	2nd daily max	ns	1	0.025	0.056	0.024	0.014	0.021	0.021	0.052	0.017	0.02	0.026
	Annual mean	ns	1	0.006	0.007	0.004	0.003	0.003	0.004	0.009	0.005	0.006	0.007
Ozone	2nd highest daily max	ns	2	0.117	0.115	0.108	0.111	0.105	0.106	0.119	0.094	0.109	0.114
	4th highest daily max 8-h average	ns	2	0.089	0.09	0.09	0.092	0.085	0.086	0.085	0.08	0.092	0.095
PM <sub>10</sub> *	98th percentile	NA	2	ND	ND	ND	ND	ND	ND	41	38.575	35.85	38.15
	Weighted annual mean	NA	2	ND	ND	ND	ND	ND	ND	15.56	15.388	14.745	15.115
<b>TOPEKA, KS</b>													
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	26.1	23.5	22.8	29.1
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	12.32	10.73	10.71	11.14

**Table A-16.** Metropolitan Statistical Area Air Quality Trends, 1993–2002 (continued)

Metropolitan Statistical Area	Trend	#Trend Sites	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	
<b>TRENTON, NJ</b>													
NO <sub>2</sub>	Annual mean	ns	1	0.016	0.016	0.016	0.017	0.017	0.015	0.017	0.016	0.017	0.016
Ozone	2nd highest daily max	ns	1	0.135	0.14	0.132	0.121	0.126	0.113	0.149	0.113	0.134	0.133
	4th highest daily max 8-h average	ns	1	0.102	0.103	0.107	0.09	0.106	0.095	0.113	0.099	0.104	0.109
PM <sub>10</sub> *	90th percentile	ns	1	46	52	38	40	40	35	36	41	41	35
	Weighted annual mean	down	1	26.6	29.1	23.9	26.7	27	23.9	20.6	25.6	23.3	21.1
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	28.3	31.5	31.85	32.2
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	11.14	12.06	11.765	11.47
<b>TUCSON, AZ</b>													
CO	2nd max (daily-non-overlapping 8 h)	down	2	4.55	4.35	4.25	3.95	3.5	3.15	2.9	3.55	2.3	2.2
SO <sub>2</sub>	2nd daily max	ns	1	0.005	0.004	0.004	0.004	0.004	0.004	0.005	0.007	0.003	0.004
	Annual mean	ns	1	0.002	0.002	0.002	0.001	0.002	0.002	0.002	0.002	0.001	0.001
NO <sub>2</sub>	Annual mean	down	1	0.018	0.019	0.019	0.018	0.018	0.017	0.018	0.017	0.015	0.017
Ozone	2nd highest daily max	down	2	0.097	0.098	0.103	0.091	0.093	0.094	0.09	0.084	0.08	0.089
	4th highest daily max 8-h average	down	2	0.079	0.078	0.082	0.077	0.078	0.075	0.07	0.075	0.075	0.076
PM <sub>10</sub> *	90th percentile	ns	2	45	36.5	56.5	45	48.5	55.5	65.5	61	48	52
	Weighted annual mean	ns	2	28.05	25.7	34.4	32.85	33.45	37.35	44.55	37.95	31.65	36.25
PM <sub>2.5</sub> *	98th percentile	NA	2	ND	ND	ND	ND	ND	ND	21.75	11.95	17.75	20.85
	Weighted annual mean	NA	2	ND	ND	ND	ND	ND	ND	9.22	7.3	7.205	6.49
<b>TULSA, OK</b>													
CO	2nd max (daily-non-overlapping 8-h)	ns	1	4.5	4.7	4.5	6.8	6.3	4.7	3.5	3.7	4.1	3
SO <sub>2</sub>	2nd daily max	ns	1	0.026	0.025	0.034	0.042	0.028	0.034	0.051	0.027	0.028	0.032
	Annual mean	ns	1	0.006	0.004	0.008	0.008	0.008	0.01	0.008	0.006	0.008	0.006
Ozone	2nd highest daily max	ns	1	0.117	0.112	0.121	0.115	0.114	0.11	0.114	0.122	0.107	0.108
	4th highest daily max 8-h average	ns	1	0.077	0.091	0.096	0.088	0.081	0.092	0.091	0.088	0.084	0.083
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	ND	28	29.5	29.5
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	ND	12.53	12.96	12.26
<b>TUSCALOOSA, AL</b>													
PM <sub>10</sub> *	90th percentile	up	1	43	41	48	41	44	44	51	59	59	59
	Weighted annual mean	up	1	26	25.9	27.4	26.2	25.2	28.3	28.1	28.7	28.7	28.7
<b>UTICA-ROME, NY</b>													
SO <sub>2</sub>	2nd daily max	ns	1	0.012	0.012	0.008	0.009	0.007	0.005	0.007	0.007	0.007	0.008
	Annual mean	down	1	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.002	0.001
Ozone	2nd highest daily max	ns	2	0.085	0.085	0.092	0.075	0.085	0.089	0.087	0.081	0.095	0.098
	4th highest daily max 8-h average	up	2	0.067	0.072	0.077	0.063	0.073	0.074	0.076	0.067	0.08	0.083
PM <sub>10</sub> *	90th percentile	ns	1	24	23	19	24	21	24	24	15	19	23
	Weighted annual mean	ns	1	11.7	11.6	11.2	12.3	11.3	12.5	12	8.7	9.4	11.3
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	ND	26.9	34.6	38.4
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	ND	11.8	11.69	12.06
<b>VALLEJO-FAIRFIELD-NAPA, CA</b>													
CO	2nd max (daily-non-overlapping 8-h)	down	2	5.55	5.2	4.2	4.15	4.4	4.2	4.15	3.75	3.35	3
SO <sub>2</sub>	2nd daily max	down	1	0.007	0.007	0.005	0.006	0.005	0.005	0.006	0.005	0.004	0.004
	Annual mean	ns	1	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.002
NO <sub>2</sub>	Annual mean	down	2	0.015	0.015	0.015	0.014	0.013	0.013	0.014	0.013	0.013	0.013
Ozone	2nd highest daily max	ns	2	0.1	0.095	0.106	0.1	0.08	0.104	0.102	0.073	0.081	0.086
	4th highest daily max 8-h average	ns	2	0.07	0.066	0.076	0.071	0.054	0.064	0.075	0.056	0.062	0.065
PM <sub>10</sub> *	90th percentile	ns	3	33	31.667	30.333	29	26.667	31.333	34.333	28.667	32	33.667
	Weighted annual mean	ns	3	21.3	20.867	19	17.933	17.433	17.133	19.2	16.533	21.267	20.967
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	ND	44	56	54
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	ND	11.57	12.48	13.61
<b>VENTURA, CA</b>													
	Maximum quarterly value	ns	1	0.01	0.01	0.01	0.008	0.008	0.006	0.013	0.011	0.009	0.007
CO	2nd max (daily-non-overlapping 8-h)	down	2	2.45	2.75	3.15	2.35	2.35	2.25	1.9	2.05	2	1.6
SO <sub>2</sub>	2nd daily max	ns	1	0.004	0.004	0.003	0.003	0.011	0.011	0.005	0.007	0.009	0.004
	Annual mean	ns	1	0.001	0.001	0.001	0.001	0.003	0.003	0.002	0.002	0.004	0.001
NO <sub>2</sub>	Annual mean	down	2	0.018	0.02	0.02	0.019	0.017	0.016	0.018	0.017	0.015	0.013
Ozone	2nd highest daily max	down	2	0.13	0.136	0.137	0.131	0.114	0.119	0.108	0.1	0.102	0.1
	4th highest daily max 8-h average	down	2	0.098	0.101	0.104	0.103	0.09	0.093	0.084	0.084	0.084	0.078
PM <sub>10</sub> *	90th percentile	ns	2	45.5	47	49.5	42	45	40	46	41.5	47	45
	Weighted annual mean	ns	2	28.2	29.85	27.15	26.45	29.8	22.8	28.8	27.75	29.8	28.4
PM <sub>2.5</sub> *	98th percentile	NA	2	ND	ND	ND	ND	ND	ND	32.6	37.1	36.2	31.55
	Weighted annual mean	NA	2	ND	ND	ND	ND	ND	ND	12.975	13.94	14	13.76

**Table A-16.** Metropolitan Statistical Area Air Quality Trends, 1993–2002 (continued)

Metropolitan Statistical Area	Trend	#Trend Sites	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
<b>VICTORIA, TX</b>												
Ozone	2nd highest daily max	ns	1	0.098	0.094	0.104	0.087	0.092	0.093	0.102	0.094	0.085
	4th highest daily max 8-h average	ns	1	0.081	0.075	0.087	0.071	0.078	0.073	0.086	0.079	0.073
<b>VINELAND-MILLVILLE-BRIDGETON, NJ PMS</b>												
SO <sub>2</sub>	2nd daily max	ns	1	0.019	0.032	0.016	0.016	0.018	0.012	0.012	0.017	0.021
	Annual mean	down	1	0.006	0.005	0.004	0.005	0.004	0.004	0.003	0.004	0.004
Ozone	2nd highest daily max	ns	1	0.121	0.102	0.126	0.105	0.115	0.117	0.117	0.117	0.129
	4th highest daily max 8-h average	ns	1	0.103	0.086	0.091	0.086	0.104	0.098	0.096	0.094	0.101
<b>VISALIA-TULARE-PORTERVILLE, CA</b>												
CO	2nd max (daily-non-overlapping 8-h)	down	1	3.5	4	4.2	3.9	3.5	3.6	3.9	3.3	3.2
NO <sub>2</sub>	Annual mean	ns	1	0.023	0.023	0.023	0.018	0.019	0.017	0.021	0.018	0.018
Ozone	2nd highest daily max	down	2	0.138	0.137	0.118	0.131	0.114	0.13	0.116	0.111	0.117
	4th highest daily max 8-h average	ns	2	0.107	0.108	0.1	0.104	0.096	0.102	0.099	0.095	0.098
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	114	103	96
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	27.6	23.92	22.49
<b>WASHINGTON, DC-MD-VA-WV</b>												
CO	2nd max (daily-non-overlapping 8-h)	down	2	5.6	5.3	4.95	4.1	4.4	3.45	4.7	3.85	3.6
SO <sub>2</sub>	2nd daily max	ns	2	0.023	0.03	0.021	0.036	0.023	0.021	0.022	0.022	0.024
	Annual mean	down	2	0.008	0.009	0.008	0.007	0.007	0.007	0.007	0.007	0.006
NO <sub>2</sub>	Annual mean	ns	4	0.027	0.027	0.023	0.024	0.023	0.024	0.023	0.022	0.024
Ozone	2nd highest daily max	ns	3	0.127	0.127	0.12	0.109	0.127	0.113	0.126	0.11	0.121
	4th highest daily max 8-h average	ns	3	0.099	0.09	0.097	0.083	0.093	0.097	0.099	0.081	0.096
PM <sub>2.5</sub> *	98th percentile	NA	4	ND	ND	ND	ND	ND	ND	ND	37.4	39.725
	Weighted annual mean	NA	4	ND	ND	ND	ND	ND	ND	ND	15.145	15.523
<b>WATERBURY, CT</b>												
	Maximum quarterly value	ns	1	0.02	0.017	0.037	0.033	0.025	0.017	0.01	0.017	0.013
SO <sub>2</sub>	2nd daily max	ns	1	0.021	0.03	0.019	0.022	0.02	0.021	0.02	0.017	0.018
	Annual mean	down	1	0.006	0.007	0.005	0.005	0.005	0.006	0.005	0.004	0.004
PM <sub>10</sub> *	90th percentile	down	1	43	41	37	45	36	32	32	30	35
	Weighted annual mean	down	1	22.6	25.1	23.6	25.4	23.3	21.6	19.2	19.9	19.8
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	38.4	34.4	35.4
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	13.22	13.56	13.97
<b>WATERLOO-CEDAR FALLS, IA</b>												
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	30.3	28.7	30.2
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	12.05	11.37	11.8
<b>WAUSAU, WI</b>												
Ozone	2nd highest daily max	ns	1	0.081	0.077	0.088	0.079	0.08	0.098	0.095	0.081	0.078
	4th highest daily max 8-h average	ns	1	0.066	0.064	0.075	0.07	0.068	0.077	0.084	0.073	0.072
<b>WEST PALM BEACH-BOCA RATON, FL</b>												
CO	2nd max (daily-non-overlapping 8-h)	down	1	3.1	2.8	2.8	2.5	3.5	2.5	2.8	2.7	2.2
SO <sub>2</sub>	2nd daily max	down	1	0.028	0.016	0.019	0.014	0.013	0.004	0.013	0.008	0.003
	Annual mean	down	1	0.004	0.003	0.002	0.002	0.002	0.001	0.002	0.002	0.001
NO <sub>2</sub>	Annual mean	up	1	0.013	0.012	0.012	0.013	0.013	0.013	0.014	0.016	0.017
PM <sub>10</sub> *	90th percentile	ns	1	30	30	30	42	34	34	30	30	24
	Weighted annual mean	ns	1	18.6	18.6	18.6	22.6	20.4	25.7	19	19.4	19.7
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	ND	26.9	18
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	ND	9.37	7.69
<b>WHEELING, WV-OH</b>												
CO	2nd max (daily-non-overlapping 8-h)	down	1	4.1	4.6	5	3.5	3.1	3.5	3	2.3	1.9
SO <sub>2</sub>	2nd daily max	down	2	0.064	0.067	0.061	0.059	0.048	0.051	0.047	0.043	0.04
	Annual mean	down	2	0.018	0.016	0.013	0.012	0.012	0.013	0.012	0.011	0.01
Ozone	2nd highest daily max	ns	1	0.11	0.095	0.104	0.105	0.11	0.104	0.1	0.093	0.104
	4th highest daily max 8-h average	ns	1	0.077	0.078	0.089	0.087	0.082	0.087	0.088	0.071	0.088
PM <sub>10</sub> *	90th percentile	down	1	49	46	45	38	40	45	43	39	41
	Weighted annual mean	down	1	27.5	27	27.7	27	23.2	24.8	25.1	23.2	24
PM <sub>2.5</sub> *	98th percentile	NA	2	ND	ND	ND	ND	ND	ND	36.15	34.45	37.75
	Weighted annual mean	NA	2	ND	ND	ND	ND	ND	ND	16.51	15.88	15.8

**Table A-16.** Metropolitan Statistical Area Air Quality Trends, 1993–2002 (continued)

Metropolitan Statistical Area	Trend	#Trend Sites	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	
<b>WICHITA, KS</b>													
CO	2nd max (daily-non-overlapping 8-h)	down	1	5.6	6.5	5.4	6.1	5.3	5.3	4.5	3.7	4.1	3.7
Ozone	2nd highest daily max	ns	1	0.08	0.08	0.09	0.095	0.092	0.1	0.095	0.093	0.096	0.092
	4th highest daily max 8-h average	up	1	0.059	0.067	0.069	0.074	0.079	0.083	0.079	0.08	0.084	0.079
PM <sub>10</sub> *	90th percentile	down	1	54	42	50	43	39	46	38	38	36	37
	Weighted annual mean	down	1	32.6	24.6	26	25.8	21.8	25.2	23.2	21.7	22.2	21.6
PM <sub>2.5</sub> *	98th percentile	NA	2	ND	ND	ND	ND	ND	ND	25.75	25.85	25	27.9
	Weighted annual mean	NA	2	ND	ND	ND	ND	ND	ND	12.205	11.695	11.18	10.76
<b>WILMINGTON-NEWARK, DE-MD</b>													
CO	2nd max (daily-non-overlapping 8-h)	ns	1	1.7	1.7	1.5	1.6	1.1	1.3	1.4	1.6	1.6	1.2
SO <sub>2</sub>	2nd daily max	down	1	0.06	0.056	0.098	0.067	0.057	0.044	0.049	0.047	0.043	0.054
	Annual mean	down	1	0.012	0.011	0.013	0.011	0.01	0.008	0.008	0.006	0.006	0.006
Ozone	2nd highest daily max	ns	2	0.118	0.108	0.136	0.108	0.124	0.118	0.128	0.115	0.112	0.132
	4th highest daily max 8-h average	ns	2	0.086	0.082	0.105	0.085	0.093	0.093	0.1	0.09	0.092	0.101
PM <sub>2.5</sub> *	98th percentile	NA	3	ND	ND	ND	ND	ND	ND	35.35	39.1	41.133	36.633
	Weighted annual mean	NA	3	ND	ND	ND	ND	ND	ND	15.135	15.783	16.29	14.297
<b>WILMINGTON, NC</b>													
SO <sub>2</sub>	2nd daily max	ns	1	0.063	0.063	0.063	0.036	0.028	0.026	0.027	0.03	0.039	0.04
	Annual mean	down	1	0.009	0.009	0.009	0.007	0.007	0.007	0.007	0.006	0.006	0.007
Ozone	2nd highest daily max	down	1	0.104	0.104	0.097	0.09	0.102	0.102	0.081	0.097	0.089	0.091
	4th highest daily max 8-h average	ns	1	0.081	0.081	0.079	0.076	0.083	0.086	0.067	0.08	0.078	0.08
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	37.4	28	25.4	22.9
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	12.81	12.48	11.49	10.36
<b>WORCESTER, MA-CT</b>													
CO	2nd max (daily-non-overlapping 8-h)	down	1	6.1	5.9	4.2	5.3	3.4	3.5	3.3	2.6	2.6	2.9
SO <sub>2</sub>	2nd daily max	down	1	0.025	0.024	0.023	0.021	0.021	0.017	0.013	0.019	0.022	0.018
	Annual mean	ns	1	0.007	0.008	0.006	0.005	0.004	0.005	0.004	0.006	0.005	0.005
NO <sub>2</sub>	Annual mean	down	1	0.028	0.025	0.021	0.019	0.019	0.019	0.02	0.018	0.02	0.017
Ozone	2nd highest daily max	ns	1	0.155	0.125	0.118	0.091	0.106	0.124	0.113	0.098	0.118	0.127
	4th highest daily max 8-h average	ns	1	0.092	0.097	0.096	0.074	0.092	0.097	0.093	0.076	0.088	0.091
PM <sub>10</sub> *	90th percentile	down	1	37	35	32	29	34	27	34	31	30	30
	Weighted annual mean	down	1	20.3	20.3	20.1	19.1	20.3	18.2	20.8	19	17.7	15.3
PM <sub>2.5</sub> *	98th percentile	NA	2	ND	ND	ND	ND	ND	ND	35.5	29.55	34.75	37.5
	Weighted annual mean	NA	2	ND	ND	ND	ND	ND	ND	13.34	11.955	13.01	11.23
<b>YOLO, CA</b>													
Ozone	2nd highest daily max	ns	1	0.09	0.097	0.108	0.113	0.092	0.109	0.115	0.101	0.099	0.104
	4th highest daily max 8-h average	ns	1	0.076	0.076	0.083	0.087	0.068	0.087	0.088	0.08	0.075	0.076
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	56	38	35	31
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	16.29	10.25	10.39	10.72
<b>YORK, PA</b>													
CO	2nd max (daily-non-overlapping 8-h)	down	1	3.3	3.9	2.7	2.8	3.4	2.4	2.4	1.8	2.2	2.2
SO <sub>2</sub>	2nd daily max	down	1	0.032	0.041	0.02	0.022	0.026	0.023	0.019	0.02	0.019	0.014
	Annual mean	ns	1	0.008	0.009	0.006	0.007	0.009	0.008	0.007	0.006	0.006	0.005
NO <sub>2</sub>	Annual mean	down	1	0.022	0.024	0.021	0.021	0.019	0.019	0.019	0.018	0.02	0.017
Ozone	2nd highest daily max	ns	1	0.112	0.115	0.097	0.098	0.109	0.112	0.121	0.112	0.104	0.124
	4th highest daily max 8-h average	ns	1	0.09	0.082	0.086	0.081	0.094	0.095	0.094	0.09	0.087	0.101
PM <sub>10</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	34.9	41.1	41.3	47.3
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	15.4	16.55	16.62	17.09
<b>YOUNGSTOWN-WARREN, OH</b>													
PM <sub>10</sub> *	90th percentile	down	1	48	46	53	37	41	45	40	40	33	39
	Weighted annual mean	down	1	25.9	29.3	32.5	26.2	24.8	26.5	24.7	25.5	22.7	22.1
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	38.6	34.6	44.8	38.3
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	16.94	15.97	16.36	14.75

**Table A-16.** Metropolitan Statistical Area Air Quality Trends, 1993–2002 (continued)

Metropolitan Statistical Area	Trend	#Trend Sites	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	
<b>YUBA CITY, CA</b>													
CO	2nd max (daily-non-overlapping 8-h)	down	1	5	5.6	4.1	4.1	3.9	3.9	4.2	3.6	3.4	3.2
NO <sub>2</sub>	Annual mean	ns	1	0.018	0.016	0.014	0.013	0.014	0.013	0.014	0.013	0.014	0.015
Ozone	2nd highest daily max	ns	1	0.09	0.107	0.102	0.108	0.09	0.102	0.103	0.097	0.099	0.101
	4th highest daily max 8-h average	ns	1	0.078	0.089	0.085	0.085	0.072	0.088	0.083	0.079	0.081	0.08
PM <sub>10</sub> *	90th percentile	ns	1	59	51	68	50	48	44	68	40	52	49
	Weighted annual mean	ns	1	30.4	34.1	32.2	29.2	28.6	23.1	38.4	27.9	29	30.4
PM <sub>2.5</sub> *	98th percentile	NA	1	ND	ND	ND	ND	ND	ND	53	37	54	35
	Weighted annual mean	NA	1	ND	ND	ND	ND	ND	ND	15.85	11.46	11.79	12.64
<b>YUMA, AZ</b>													
PM <sub>10</sub> *	90th percentile	up	1	50	51	67	52	62	75	59	68	84.5	101
	Weighted annual mean	up	1	31.8	31.1	35.1	37.1	36.6	40.1	35.2	42.3	45.1	47.9

CO = Highest second maximum non-overlapping 8-hour concentration (*Applicable NAAQS is 9 ppm*)Pb = Highest quarterly maximum concentration (*Applicable NAAQS is 1.5 µg/m<sup>3</sup>*)NO<sub>2</sub> = Highest arithmetic mean concentration (*Applicable NAAQS is 0.053 ppm*)PM<sub>10</sub> = Highest second maximum 24-hour concentration (*Applicable NAAQS is 150 µg/m<sup>3</sup>*)SO<sub>2</sub> = Highest second maximum 24-hour concentration (*Applicable NAAQS is 0.14 ppm*)

ppm = Units are parts per million

µg/m<sup>3</sup> = Units are micrograms per cubic meter\*PM<sub>2.5</sub> does not have enough years to assess trends.

**Table A-17.** Number of Days with AQI Values Greater Than 100 at Trend Sites, 1993–2002, and All Sites in 2002

Metropolitan Statistical Area	# of Trend Sites											Total # of Sites 2002	2002 Count*
		1993	1994	1995	1996	1997	1998	1999	2000*	2001*	2002*		
Akron, OH	7	10	8	12	11	6	14	20	4	12	22	9	24
Albany–Schenectady–Troy, NY	6	5	6	3	4	3	3	6	1	11	8	12	18
Albuquerque, NM	23	0	1	0	0	0	0	1	0	1	4	31	4
Allentown–Bethlehem–Easton, PA	4	3	3	7	6	12	18	19	5	9	18	12	27
Atlanta, GA	21	36	15	36	28	33	52	67	34	18	24	37	37
Austin–San Marcos, TX	1	2	4	10	0	0	5	8	6	0	5	8	5
Bakersfield, CA	27	97	105	107	110	58	78	144	132	125	152	29	153
Baltimore, MD	20	48	40	36	28	30	51	40	19	32	42	33	44
Baton Rouge, LA	18	13	10	22	12	16	21	26	33	5	6	22	7
Bergen–Passaic, NJ	5	0	0	0	0	0	1	0	0	0	0	9	21
Birmingham, AL	18	10	6	32	15	8	23	51	49	35	16	30	23
Boston, MA–NH	21	2	6	7	4	7	8	10	1	12	16	35	26
Buffalo–Niagara Falls, NY	8	1	4	6	3	1	13	8	5	13	21	15	22
Charleston–North Charleston, SC	12	2	2	1	3	3	3	5	4	0	1	13	3
Charlotte–Gastonia–Rock Hill, NC–SC	15	29	15	18	21	29	50	42	28	27	37	26	40
Chicago, IL	51	4	13	24	7	10	12	19	2	22	21	70	26
Cincinnati, OH–KY–IN	16	5	16	19	10	11	13	16	14	14	30	33	32
Cleveland–Lorain–Elyria, OH	42	17	25	27	19	13	22	40	22	32	31	48	33
Columbus, OH	9	8	12	18	19	13	21	26	10	13	21	15	30
Dallas, TX	21	12	24	29	10	27	33	25	22	16	15	40	22
Dayton–Springfield, OH	12	11	14	11	18	10	19	21	14	7	28	15	30
Denver, CO	32	6	3	5	2	0	9	5	3	8	8	29	8
Detroit, MI	33	5	11	14	13	11	17	20	15	27	26	35	28
El Paso, TX	19	7	6	3	6	2	6	5	4	9	13	40	18
Fort Lauderdale, FL	16	4	1	1	1	0	1	3	2	3	3	21	3
Fort Worth–Arlington, TX	5	9	31	28	14	14	17	19	16	17	23	19	33
Fresno, CA	19	59	55	61	70	75	67	133	131	138	152	25	156
Gary, IN	19	0	6	18	12	12	9	16	10	19	20	30	24
Grand Rapids–Muskegon–Holland, MI	9	3	14	18	9	10	19	22	6	17	21	14	24
Greensboro–Winston Salem–High Point, NC	15	22	7	13	7	14	26	24	14	14	24	22	32
Greenville–Spartanburg–Anderson, SC	9	8	5	7	7	9	28	19	11	13	28	11	29
Harrisburg–Lebanon–Carlisle, PA	9	15	12	13	3	9	22	19	16	22	21	11	24
Hartford, CT	9	14	18	14	5	16	10	18	7	16	21	13	23
Honolulu, HI	19	0	0	0	0	0	0	2	2	2	2	26	2
Houston, TX	29	27	41	66	28	47	38	52	42	29	23	60	30
Indianapolis, IN	25	9	22	21	16	12	19	24	5	10	25	34	26
Jacksonville, FL	12	0	0	0	0	0	3	2	0	0	1	17	1
Jersey City, NJ	7	19	12	16	5	9	7	20	4	7	8	9	8
Kansas City, MO–KS	18	4	10	21	7	16	14	3	11	4	7	34	12
Knoxville, TN	16	25	16	26	21	37	54	66	41	23	45	21	45
Las Vegas, NV–AZ	15	3	3	3	14	4	5	8	2	1	6	56	14
Little Rock–North Little Rock, AR	6	2	2	7	1	1	3	5	16	4	9	14	11
Los Angeles–Long Beach, CA	56	134	139	113	94	60	56	56	87	88	80	69	108
Louisville, KY–IN	35	23	28	26	17	18	29	47	18	19	29	36	29
Memphis, TN–AR–MS	15	15	10	21	19	17	27	35	24	13	16	20	17
Miami, FL	16	6	1	2	1	3	8	7	2	1	1	16	1
Middlesex–Somerset–Hunterdon, NJ	5	13	9	20	15	19	22	26	11	21	29	7	30
Milwaukee–Waukesha, WI	20	4	12	14	5	5	12	19	5	15	12	28	12
Minneapolis–St. Paul, MN–WI	27	0	2	5	0	0	1	1	2	2	1	49	2
Monmouth–Ocean, NJ	3	24	13	20	17	21	31	27	11	21	31	4	32
Nashville, TN	18	19	21	26	23	20	30	36	19	7	16	21	21
Nassau–Suffolk, NY	7	17	15	10	8	12	11	18	5	3	13	13	19
New Haven–Meriden, CT	8	12	13	14	8	19	9	19	9	15	25	11	29
New Orleans, LA	12	6	8	20	8	7	7	18	17	5	2	19	2

**Table A-17.** Number of Days with AQI Values Greater Than 100 at Trend Sites, 1993–2002, and All Sites in 2002 (continued)

Metropolitan Statistical Area	# of Trend Sites											Total # of Sites 2002	2002 Count*
		1993	1994	1995	1996	1997	1998	1999	2000*	2001*	2002*		
New York, NY	19	11	16	21	14	23	18	25	19	19	31	44	34
Newark, NJ	11	13	12	20	11	13	22	24	10	16	30	23	30
Norfolk–Virginia Beach–Newport News, VA–NC	10	19	6	6	4	17	15	17	5	7	15	17	15
Oakland, CA	30	4	3	12	11	0	12	17	12	9	19	45	21
Oklahoma City, OK	9	2	5	13	2	4	7	4	6	2	2	19	4
Omaha, NE–IA	11	1	1	1	1	0	5	5	1	1	0	20	0
Orange County, CA	15	25	15	9	9	3	6	14	31	31	19	16	21
Orlando, FL	14	4	3	1	1	5	14	4	3	6	1	16	1
Philadelphia, PA–NJ	44	62	37	38	38	38	37	32	22	29	33	60	39
Phoenix–Mesa, AZ	25	14	10	22	15	12	14	10	10	8	8	68	22
Pittsburgh, PA	57	14	22	27	12	21	39	40	29	52	53	66	55
Portland–Vancouver, OR–WA	13	0	2	2	6	0	3	4	5	4	6	21	6
Providence–Fall River–Warwick, RI–MA	9	0	5	7	2	3	2	3	3	10	9	20	15
Raleigh–Durham–Chapel Hill, NC	11	17	15	12	14	22	40	29	13	8	29	19	30
Richmond–Petersburg, VA	8	22	9	14	5	19	22	21	6	15	22	16	25
Riverside–San Bernardino, CA	47	168	150	125	118	107	96	123	145	155	145	68	147
Rochester, NY	6	0	1	6	0	6	4	9	1	5	13	8	13
Sacramento, CA	39	20	37	41	44	17	29	69	45	49	69	52	77
St. Louis, MO–IL	55	9	33	38	23	15	24	31	18	17	34	68	36
Salt Lake City–Ogden, UT	24	5	17	5	14	2	19	8	15	15	18	37	36
San Antonio, TX	2	3	3	17	2	3	6	9	0	0	17	12	17
San Diego, CA	36	59	46	48	31	14	33	33	31	31	20	36	20
San Francisco, CA	16	0	0	2	0	0	0	10	4	12	17	16	17
San Jose, CA	11	4	2	14	8	0	8	23	24	14	11	13	13
SanJuan–Bayamon, PR	17	0	0	0	1	1	0	2	0	0	0	31	0
Scranton–Wilkes Barre–Hazleton, PA	14	10	7	12	4	11	7	12	3	12	23	12	23
Seattle–Bellevue–Everett, WA	13	0	3	2	6	1	3	6	7	3	6	30	7
Springfield, MA	16	13	12	9	5	10	7	15	3	13	12	19	17
Syracuse, NY	5	4	1	5	0	2	3	4	1	4	9	9	10
Tacoma, WA	8	0	2	0	1	0	4	4	5	4	0	9	7
Tampa–St. Petersburg–Clearwater, FL	36	1	3	2	3	4	11	10	8	4	0	47	0
Toledo, OH	3	7	8	9	11	4	5	4	2	9	13	10	18
Tucson, AZ	23	1	0	3	0	1	0	7	0	0	3	27	3
Tulsa, OK	11	4	12	21	14	7	9	14	10	6	5	17	6
Ventura, CA	21	43	63	66	62	45	29	24	31	25	11	25	16
Washington, DC–MD–VA–WV	46	52	22	32	18	30	47	39	11	22	34	65	39
West Palm Beach–Boca Raton, FL	8	3	0	0	0	0	2	1	0	1	0	10	0
Wilmington–Newark, DE–MD	8	29	24	27	13	22	28	21	18	19	21	18	23
Youngstown–Warren, OH	9	9	5	11	8	10	20	16	5	22	18	15	25

\*Includes PM<sub>2.5</sub>.

**Table A-18.** Number of Days with Air Quality Index Values Greater Than 100 at Trend Sites, 1993–2002, and All Sites in 2002, Ozone Only

Metropolitan Statistical Area	# of Trend Sites											Total # of Sites 2002	2002 Count
		1993	1994	1995	1996	1997	1998	1999	2000	2001	2002		
AKRON, OH	2	10	8	12	11	6	14	20	4	12	22	2	22
ALBANY-SCHENECTADY-TROY, NY	3	5	6	3	4	3	3	6	1	11	8	4	16
ALBUQUERQUE, NM	8	0	1	0	0	0	0	1	0	1	0	11	0
ALLENTOWN-BETHLEHEM-EASTON, PA	1	3	3	7	6	12	18	19	5	9	18	3	21
ATLANTA, GA	5	36	15	36	28	33	52	61	27	10	24	12	37
AUSTIN-SAN MARCOS, TX	1	2	4	10	0	0	5	8	6	0	5	2	5
BAKERSFIELD, CA	8	97	105	106	110	58	76	93	82	85	91	8	91
BALTIMORE, MD	7	48	40	36	28	30	51	40	16	26	39	8	39
BATON ROUGE, LA	7	12	10	22	12	16	21	26	30	5	6	7	6
BERGEN-PASSAIC, NJ	.	0	0	0	0	0	0	0	0	0	0	2	20
BIRMINGHAM, AL	6	10	6	32	15	8	23	30	21	11	13	10	15
BOSTON, MA-NH	2	2	6	7	4	7	8	8	1	12	13	6	19
BUFFALO-NIAGARA FALLS, NY	2	1	4	6	3	1	13	8	5	13	21	2	21
CHARLESTON-NORTH CHARLESTON, SC	3	2	2	1	3	3	3	5	4	0	1	3	1
CHARLOTTE-GASTONIA-ROCK HILL, NC-SC	6	29	15	18	21	29	50	42	24	26	36	8	38
CHICAGO, IL	22	3	8	24	7	10	12	14	1	16	20	21	21
CINCINNATI, OH-KY-IN	4	5	16	19	10	11	13	11	4	6	26	8	29
CLEVELAND-LORAIN-ELYRIA, OH	8	16	23	24	18	13	21	20	4	17	29	9	31
COLUMBUS, OH	4	8	12	18	19	13	21	22	6	7	19	7	28
DALLAS, TX	3	12	24	29	10	27	33	25	22	16	15	10	22
DAYTON-SPRINGFIELD, OH	4	11	14	11	18	10	19	19	6	4	28	5	28
DENVER, CO	8	3	2	3	2	0	9	3	2	2	7	8	7
DETROIT, MI	7	5	11	12	12	11	17	14	3	16	21	7	21
EL PASO, TX	2	3	2	3	1	0	6	0	3	1	4	6	6
FORT LAUDERDALE, FL	2	4	1	1	1	0	1	1	1	2	1	3	1
FORT WORTH-ARLINGTON, TX	2	9	31	28	14	14	17	19	16	17	23	8	33
FRESNO, CA	5	59	55	61	70	75	67	81	78	92	91	9	95
GARY, IN	3	0	6	18	12	11	9	10	5	10	20	6	23
GRAND RAPIDS-MUSKEGON-HOLLAND, MI	4	3	14	18	9	10	19	21	3	11	20	5	20
GREENSBORO-WINSTON SALEM-HIGH POINT, NC	4	22	7	13	7	14	26	24	12	12	24	7	30
GREENVILLE-SPARTANBURG-ANDERSON, SC	4	8	5	7	7	9	28	19	11	13	28	4	28
HARRISBURG-LEBANON-CARLISLE, PA	3	15	12	13	3	9	22	17	5	17	17	3	17
HARTFORD, CN	3	14	18	13	5	16	10	18	7	16	21	3	21
HONOLULU, HI	1	0	0	0	0	0	0	0	0	0	0	1	0
HOUSTON, TX	9	27	41	66	28	47	38	51	41	28	22	17	29
INDIANAPOLIS, IN	7	9	22	21	16	12	19	24	4	8	23	12	24

**Table A-18.** Number of Days with Air Quality Index Values Greater Than 100 at Trend Sites, 1993–2002, and All Sites in 2002, Ozone Only (continued)

Metropolitan Statistical Area	# of Trend Sites											Total # of Sites 2002	2002 Count
		1993	1994	1995	1996	1997	1998	1999	2000	2001	2002		
JACKSONVILLE, FL	1	0	0	0	0	0	3	2	0	0	0	3	0
JERSEY CITY, NJ	1	19	12	16	5	9	7	17	3	6	6	1	6
KANSAS CITY, MO-KS	4	3	10	21	6	16	14	3	10	4	7	6	12
KNOXVILLE, TN	7	25	16	26	21	37	54	62	36	17	45	7	45
LAS VEGAS, NV-AZ	4	3	3	0	4	0	3	0	0	1	2	15	6
LITTLE ROCK-NORTH LITTLE ROCK, AR	2	2	2	7	1	1	2	5	16	4	9	3	9
LOS ANGELES-LONG BEACH, CA	14	112	117	97	74	45	46	19	45	37	35	16	68
LOUISVILLE, KY-IN	7	22	28	26	17	18	29	44	10	10	26	7	26
MEMPHIS, TN-AR-MS	4	13	10	21	18	17	27	35	24	13	16	4	16
MIAMI, FL	4	6	1	2	1	3	8	5	0	1	0	4	0
MIDDLESEX-SOMERSET-HUNTERDON, NJ	2	13	9	20	15	19	22	26	11	21	29	2	29
MILWAUKEE-WAUKESHA, WI	9	4	12	14	5	5	12	17	4	12	12	9	12
MINNEAPOLIS-ST. PAUL, MN-WI	4	0	0	3	0	0	1	0	0	2	1	6	2
MONMOUTH-OCEAN, NJ	2	24	13	20	17	21	31	27	11	21	31	2	31
NASHVILLE, TN	6	18	21	26	22	20	30	33	16	7	16	7	21
NASSAU-SUFFOLK, NY	2	17	15	10	8	12	11	18	5	3	13	3	18
NEW HAVEN-MERIDEN, CT	1	12	13	14	8	19	9	16	6	11	20	2	24
NEW ORLEANS, LA	6	6	8	20	8	7	7	18	17	5	2	6	2
NEW YORK, NY	5	11	16	20	14	23	18	25	11	16	30	7	30
NEWARK, NJ	1	13	11	20	11	13	22	21	6	13	27	2	27
NORFOLK-VIRGINIA BEACH-NEWPORT NEWS, VA-NC	3	19	6	6	4	17	15	16	5	6	15	3	15
OAKLAND, CA	8	4	3	12	11	0	12	8	3	3	5	11	6
OKLAHOMA CITY, OK	3	2	5	13	2	4	7	4	6	2	2	6	3
OMAHA, NE-IA	3	0	0	0	0	0	0	2	0	0	0	3	0
ORANGE COUNTY, CA	4	25	15	8	9	3	6	1	4	2	0	4	1
ORLANDO, FL	4	4	3	1	1	5	14	4	3	3	1	5	1
PHILADELPHIA, PA-NJ	10	51	25	30	22	32	37	32	17	27	33	12	37
PHOENIX-MESA, AZ	7	14	7	19	15	10	14	10	9	6	6	21	14
PITTSBURGH, PA	11	13	20	25	12	20	39	23	4	19	28	12	32
PORTLAND-VANCOUVER, OR-WA	3	0	1	2	6	0	3	0	0	0	1	4	1
PROVIDENCE-FALL RIVER-WARWICK, RI-MA	1	0	5	7	2	3	2	2	2	10	9	2	14
RALEIGH-DURHAM-CHAPEL HILL, NC	7	17	15	12	14	22	40	29	12	8	29	8	29
RICHMOND-PETERSBURG, VA	3	22	9	14	5	19	22	21	5	12	21	4	25
RIVERSIDE-SAN BERNARDINO, CA	15	167	149	119	115	104	95	96	98	92	96	18	97
ROCHESTER, NY	2	0	1	6	0	6	4	9	1	5	13	2	13

**Table A-18.** Number of Days with Air Quality Index Values Greater Than 100 at Trend Sites, 1993–2002, and All Sites in 2002, Ozone Only (continued)

Metropolitan Statistical Area	# of Trend Sites											Total # of Sites 2002	2002 Count
		1993	1994	1995	1996	1997	1998	1999	2000	2001	2002		
SACRAMENTO, CA	10	20	37	41	44	17	29	39	29	34	39	15	47
ST. LOUIS, MO-IL	15	9	31	38	23	14	24	29	16	14	32	17	32
SALT LAKE CITY-OGDEN, UT	6	2	9	5	12	2	19	4	7	4	7	8	9
SAN ANTONIO, TX	1	3	3	17	2	3	6	9	0	0	17	3	17
SAN DIEGO, CA	9	58	46	48	31	14	33	16	14	17	13	9	13
SAN FRANCISCO, CA	3	0	0	2	0	0	0	0	0	0	0	3	0
SAN JOSE, CA	5	4	2	14	8	0	8	3	1	3	6	6	6
SANJUAN-BAYAMON, PR	.	0	0	0	0	0	0	0	0	0	0	1	0
SCRANTON-WILKES BARRE-HAZLETON, PA	4	10	7	12	4	11	7	12	1	10	16	4	16
SEATTLE-BELLEVUE-EVERETT, WA	2	0	3	0	6	1	3	1	1	0	0	4	0
SPRINGFIELD, MA	4	13	12	9	4	10	7	10	2	13	12	4	12
SYRACUSE, NY	2	4	1	5	0	2	3	4	1	4	9	3	9
TACOMA, WA	2	0	2	0	1	0	4	0	0	0	0	4	0
TAMPA-ST. PETERSBURG-CLEARWATER, FL	7	1	3	2	3	4	11	9	6	4	0	10	0
TOLEDO, OH	2	7	8	9	11	4	5	4	2	9	13	5	16
TUCSON, AZ	5	1	0	3	0	1	0	1	0	0	1	6	1
TULSA, OK	3	4	12	21	14	7	9	14	10	4	5	5	6
VENTURA, CA	6	43	63	66	62	44	29	22	27	19	10	7	15
WASHINGTON, DC-MD-VA-WV	16	52	22	32	18	30	47	39	11	22	34	20	38
WEST PALM BEACH-BOCA RATON, FL	1	3	0	0	0	0	2	1	0	1	0	2	0
WILMINGTON-NEWARK, DE-MD	4	29	24	27	13	22	28	21	18	19	21	5	21
YOUNGSTOWN-WARREN, OH	2	9	5	11	8	10	20	12	2	12	16	3	24

**Table A-19.** Condensed Nonattainment Areas List<sup>a</sup>

State	Area Name <sup>b</sup>	1-h Pollutant <sup>c</sup>					1-h Population <sup>d</sup> (1000s)						
		O <sub>3</sub>	CO	SO <sub>2</sub>	PM <sub>10</sub>	Pb	NO <sub>2</sub>	O <sub>3</sub>	CO	SO <sub>2</sub>	PM <sub>10</sub>	Pb	
1 AK	Anchorage	.	1	.	1	.	.	.	255	.	195	.	255
2 AK	Fairbanks	.	1	.	.	.	.	.	39	.	.	.	39
3 AK	Juneau	.	.	.	1	.	.	.	.	13	.	.	13
4 AL	Birmingham	1	.	.	.	.	.	805	.	.	.	.	805
5 AZ	Ajo	.	.	1	1	.	.	.	7	7	.	.	7
6 AZ	Douglas	.	.	1	1	.	.	.	15	15	.	.	15
7 AZ	Miami-Hayden	.	.	2	1	.	.	.	4	4	.	.	4
8 AZ	Morenci	.	.	1	.	.	.	.	8	.	.	.	8
9 AZ	Nogales	.	.	.	1	.	.	.	.	24	.	.	24
10 AZ	Paul Spur	.	.	.	1	.	.	.	.	1	.	.	1
11 AZ	Phoenix	1	1	.	1	.	.	3028	3028	.	3111	.	3111
12 AZ	Rillito	.	.	.	1	.	.	.	.	0	.	.	0
13 AZ	San Manuel	.	.	1	.	.	.	.	7	.	.	.	7
14 AZ	Yuma	.	.	.	1	.	.	.	.	82	.	.	82
15 CA	Imperial Valley	.	.	.	1	.	.	.	.	119	.	.	119
16 CA	Los Angeles-South Coast	1	1	.	1	.	.	14550	14550	.	14550	.	14550
17 CA	Mono Basin (in Mono Co.)	.	.	.	1	.	.	.	.	0	.	.	0
18 CA	Owens Valley	.	.	.	1	.	.	.	.	7	.	.	7
19 CA	Sacramento Metro	1	.	.	1	.	.	1978	.	1223	.	.	1978
20 CA	San Diego	1	.	.	.	.	.	2813	.	.	.	.	2813
21 CA	San Francisco-Oakland-San Jose	1	.	.	.	.	.	6541	.	.	.	.	6541
22 CA	San Joaquin Valley	2	.	.	1	.	.	3302	.	3080	.	.	3302
23 CA	Santa Barbara-Santa Maria-Lompoc	1	.	.	.	.	.	399	.	.	.	.	399
24 CA	Searles Valley	.	.	.	3	.	.	.	.	22	.	.	22
25 CA	Southeast Desert Modified AQMA	1	.	.	2	.	.	1024	.	424	.	.	1024
26 CA	Ventura Co.	1	.	.	.	.	.	753	.	.	.	.	753
27 CO	Aspen	.	.	.	1	.	.	.	.	5	.	.	5
28 CO	Denver-Boulder	.	.	.	1	.	.	.	.	2389	.	.	2389
29 CO	Fort Collins	.	1	.	.	.	.	143	.	.	.	.	143
30 CO	Lamar	.	.	.	1	.	.	.	.	8	.	.	8
31 CO	Steamboat Springs	.	.	.	1	.	.	.	.	9	.	.	9
32 CT	Greater Connecticut	1	.	.	1	.	.	2532	.	123	.	.	2532
33 DC-MD-VA	Washington	1	.	.	.	.	.	4544	.	.	.	.	4544
34 DE	Sussex County	1	.	.	.	.	.	156	.	.	.	.	156
35 GA	Atlanta	1	.	.	.	.	.	3698	.	.	.	.	3698
36 GU	Piti Power Plant	.	.	1	.	.	.	.	1	.	.	.	1
37 GU	Tanguisson Power Plant	.	.	1	.	.	.	.	1	.	.	.	1
38 ID	Boise	.	1	.	.	.	.	197	.	.	.	.	197
39 ID	Bonner Co.(Sandpoint )	.	.	.	1	.	.	.	.	36	.	.	36
40 ID	Pocatello Area	.	.	.	2	.	.	.	.	66	.	.	66
41 ID	Shoshone Co.	.	.	.	2	.	.	.	.	12	.	.	12
42 IL-IN	Chicago-Gary-Lake County	1	.	1	3	.	.	8757	484	322	.	.	8757
43 LA	Baton Rouge	1	.	.	.	.	.	636	.	.	.	.	636
44 MA	Boston-Lawerence	1	.	.	.	.	.	5883	.	.	.	.	5883
45 MA	Springfield (W. Mass)	1	.	.	.	.	.	814	.	.	.	.	814
46 MD	Baltimore	1	.	.	.	.	.	2512	.	.	.	.	2512
47 MD	Kent and Queen Anne Cos.	1	.	.	.	.	.	59	.	.	.	.	59
48 ME	Knox/Lincoln County	1	.	.	.	.	.	73	.	.	.	.	73
49 ME	Lewiston-Auburn	1	.	.	.	.	.	220	.	.	.	.	220
50 ME	Portland	1	.	.	.	.	.	487	.	.	.	.	487
51 MO	Liberty-Arcadia	.	.	.	.	1	.	.	.	6	.	.	6
52 MO-IL	St. Louis	1	.	.	.	1 <sup>e</sup>	.	2482	.	.	.	2	2482
53 MT	Billings/Laural	.	.	1	.	.	.	.	6	.	.	.	6
54 MT	Butte	.	.	.	1	.	.	.	.	34	.	.	34
55 MT	Columbia Falls	.	.	1	.	1	.	.	.	3	.	.	3
56 MT	East Helena	.	.	1	.	1	.	.	2	2	.	.	2
57 MT	Kalispell	.	.	.	1	.	.	.	.	15	.	.	15
58 MT	Lame Deer	.	.	.	.	1	.	.	.	0	.	.	0
59 MT	Libby	.	.	1	.	.	.	.	.	3	.	.	3
60 MT	Missoula	.	1	.	1	.	.	52	.	52	.	.	52
61 MT	Polson	.	.	.	1	.	.	.	.	3	.	.	3
62 MT	Ronan	.	.	.	1	.	.	.	.	2	.	.	2
63 MT	Thompson Falls	.	.	.	1	.	.	.	.	1	.	.	1
64 MT	Whitefish	.	.	.	1	.	.	.	.	5	.	.	5
65 NH	Manchester	1	.	.	.	.	.	364	.	.	.	.	364
66 NH	Portsmouth-Bover-Rochester	1	.	.	.	.	.	192	.	.	.	.	192
67 NJ	Atlantic City	1	.	.	.	.	.	354	.	.	.	.	354
68 NM	Anthony	.	.	.	1	.	.	.	.	2	.	.	2

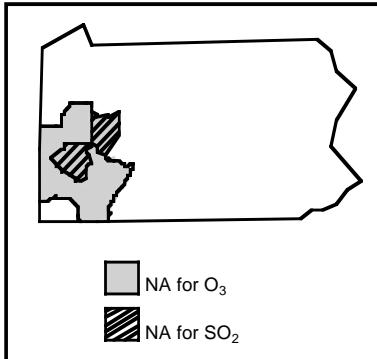
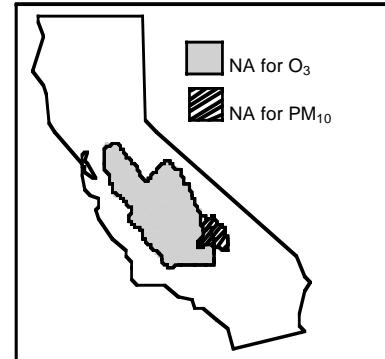
**Table A-19.** Condensed Nonattainment Areas List<sup>a</sup> (continued)

State	Area Name <sup>b</sup>	1-h Pollutant <sup>c</sup>					1-h Population <sup>d</sup> (1000s)						
		O <sub>3</sub>	CO	SO <sub>2</sub>	PM <sub>10</sub>	Pb	NO <sub>2</sub>	O <sub>3</sub>	CO	SO <sub>2</sub>	PM <sub>10</sub>	Pb	
69 NM	Grant Co.	.	.	1	.	.	.	.	.	31	.	.	31
70 NM	Sunland Park	1 <sup>f</sup>	.	.	.	.	.	10	.	.	.	.	10
71 NV	Lake Tahoe Nevada	.	1	.	.	.	.	.	29	.	.	.	29
72 NV	Las Vegas	.	1	.	1	.	.	.	478	.	1375	.	1375
73 NV	Reno	1	1	.	1	.	.	339	178	.	339	.	339
74 NY	Abany-Schenectedy	1	.	.	.	.	.	892	.	.	.	.	892
75 NY	Buffalo-Niagara Falls	1	.	.	.	.	.	1170	.	.	.	.	1170
76 NY	"Essex Cy, Whiteface"	1	.	.	.	.	.	0	.	.	.	.	0
77 NY	Jefferson County	1	.	.	.	.	.	111	.	.	.	.	111
78 NY	Poughkeepsie	1	.	.	.	.	.	600	.	.	.	.	600
79 NY-NJ-CT	New York-N. New Jersey-Long Island	1	.	.	1	.	.	19171	.	1537	.	19171	
80 OH	Cleveland-Akron-Lorain	.	.	1	.	.	.	.	1095	.	.	.	1095
81 OH	Lucas Co. (Toledo)	.	.	1	.	.	.	.	455	.	.	.	455
82 OH-KY	Cincinnati-Hamilton	1	.	.	.	.	.	1514	.	.	.	.	1514
83 OH-PA	Youngstown-Warren	1	.	.	.	.	.	120	.	.	.	.	120
84 OR	Grants Pass	.	.	.	1	.	.	.	.	.	20	.	20
85 OR	Klamath Falls	.	.	.	1	.	.	.	.	.	19	.	19
86 OR	LaGrande	.	.	.	1	.	.	.	.	.	12	.	12
87 OR	Lakeview	.	.	.	1	.	.	.	.	.	3	.	3
88 OR	Medford	.	.	.	1	.	.	.	.	.	78	.	78
89 OR	Oakridge	.	.	.	1	.	.	.	.	.	3	.	3
90 OR	Springfield-Eugene	.	.	.	1	.	.	.	.	179	.	.	179
91 OR	Salem	.	1	.	.	.	.	.	135	.	.	.	135
92 PA	Altoona	1	.	.	.	.	.	129	.	.	.	.	129
93 PA	Erie	1	.	.	.	.	.	280	.	.	.	.	280
94 PA	Harrisburg-Lebanon	1	.	.	.	.	.	629	.	.	.	.	629
95 PA	Johnstown	1	.	.	.	.	.	232	.	.	.	.	232
96 PA	Lancaster	1	.	.	.	.	.	470	.	.	.	.	470
97 PA	Pittsburgh-Beaver Valley	.	1	2	1	.	.	.	335	410	21	.	410
98 PA	Scranton-Wilkes-Barre	1	.	.	2	.	.	763	.	.	.	.	763
99 PA	Warren Co	.	.	.	2	.	.	.	.	20	.	.	20
100 PA	York	1	.	.	.	.	.	473	.	.	.	.	473
101 PA-DE-NJ-MDPhiladelphia-Wilmington-Trenton		1	.	.	.	.	.	6311	.	.	.	.	6311
102 PA-NJ	Allentown-Bethlehem	1	.	1	.	.	.	740	.	102	.	.	740
103 PR	Guayanabo Co.	.	.	.	1	.	.	.	.	.	92	.	92
104 RI	Providence (all of RI)	1	.	.	.	.	.	1048	.	.	.	.	1048
105 TX	Beaumont-Port Arthur	1	.	.	.	.	.	385	.	.	.	.	385
106 TX	Dallas-Fort Worth	1	.	.	.	.	.	4589	.	.	.	.	4589
107 TX	El Paso	1	1	.	1	.	.	679	62	.	563	.	679
108 TX	Houston-Galveston-Brazoria	1	.	.	.	.	.	4669	.	.	.	.	4669
109 UT	Ogden	.	.	.	1	.	.	.	.	.	77	.	77
110 UT	Salt Lake City	.	.	1	1	.	.	.	.	898	898	.	898
111 UT	Tooele Co.	.	.	1	.	.	.	.	.	40	.	.	40
112 UT	Utah Co. (Provo)	.	1	.	1	.	.	.	118	.	368	.	368
113 VA	"Smyth Cy, White Top"	1	.	.	.	.	.	.	0	.	.	.	0
114 WA	Spokane	.	1	.	1	.	.	.	322	.	204	.	322
115 WA	Wallula	.	.	.	1	.	.	.	.	.	0	.	0
116 WA	Yakima	.	1	.	1	.	.	.	.	.	63	.	63
117 WI	Door County	1	.	.	.	.	.	27	.	.	.	.	27
118 WI	Manitowoc Co.	1	.	.	.	.	.	82	.	.	.	.	82
119 WI	Milwaukee-Racine	1	.	.	.	.	.	1839	.	.	.	.	1839
120 WV	Follansbee	.	.	.	1	.	.	.	.	.	2	.	2
121 WV	New Manchester Gr. (in Hancock Co)	.	.	1	.	.	.	.	.	9	.	.	9
122 WV	Wier-Butler-Clay (in Hancock Co)	.	.	1	1	.	.	.	.	16	15	.	16
123 WV-KY	Huntington-Ashland	.	.	1	.	.	.	.	49	.	.	.	49
124 WY	Sheridan	.	.	.	1	.	.	.	.	15	.	.	15

56 16 24 67 3 0 116228 19921 3660 31850 10 125730

**Table A-19.** Condensed Nonattainment Areas List<sup>a</sup> (continued)**Notes:**

- <sup>a</sup> This is a simplified listing of Classified Nonattainment areas. Unclassified and Section 185(A) nonattainment areas are not included. In certain cases, footnotes are used to clarify the areas involved. For example, the lead Readers interested in more detailed information should use the official Federal Register Citation (40CFR81).
- <sup>b</sup> Names of nonattainment areas are listed alphabetically within each state. The largest city determines which state is listed first in the case of multiple-city nonattainment areas. When a larger nonattainment area, such as ozone, contains one or more smaller nonattainment areas, such as PM<sub>10</sub> or lead, the common name for the larger nonattainment area is used. Note that several smaller nonattainment areas may be inside one larger nonattainment area, as illustrated in Figure 1. For the purpose of this table, these are considered one nonattainment area and are listed on one line. Occasionally, two nonattainment areas may only partially overlap, as illustrated in Figure 2. These are counted as two distinct nonattainment areas and are listed on separate lines.
- <sup>c</sup> The number of nonattainment areas for each of the criteria pollutants is listed.
- <sup>d</sup> Population figures were obtained from 2000 census data. For nonattainment areas defined as only partial counties, population figures for just the nonattainment area were used when these were available. Otherwise, whole county population figures were used. When a larger nonattainment area encompasses a smaller one, double-counting the population in the "All" column is avoided by only counting the population of the larger nonattainment area.
- <sup>e</sup> Lead nonattainment area is Herculaneum, Missouri, in Jefferson County.
- <sup>f</sup> Ozone nonattainment area is a portion of Dona Ana County, New Mexico.

**Figure A-1.** (Multiple NA areas within a larger NA area) Two SO<sub>2</sub> areas inside the Pittsburgh–Beaver Valley ozone NA. Counted as one NA area.**Figure A-2.** (Overlapping NA areas) Searles Valley PM<sub>10</sub> NA partially overlaps the San Joaquin Valley ozone NA. Counted as two NA areas.

**Table A-20.** Trend in 8-hr ozone concentrations (ppm) exceedances at National Park and National Monument sites, 1991–2000

National Park	Trend	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Acadia NP	NS	0.095 7	0.080 1	0.080 3	0.075 0	0.092 5	0.073 2	0.077 1	0.088 4	0.092 5	0.070 0
Big Bend NP	NS	0.057 0	0.061 0	0.063 0	0.069 0	0.065 0	0.073 0	0.063 0	0.070 0	0.064 0	0.064 0
Brigantine	NS	0.111 34	0.094 8	0.093 13	0.083 2	0.100 10	0.095 13	0.106 18	0.091 22	0.095 13	0.085 4
Canyonlands NP	UP	nd nd	0.055 0	0.063 0	0.068 0	0.063 0	0.074 0	0.067 0	0.071 0	0.073 0	0.076 0
Cape Cod NS	NS	0.111 16	0.096 6	0.088 4	0.088 4	0.105 9	0.096 8	0.100 17	0.084 2	0.101 12	0.083 3
Cape Romain	UP	0.060 0	0.072 0	0.069 0	0.067 0	0.075 1	0.071 1	0.082 3	0.076 0	0.080 2	0.076 2
Chamizal	NS	nd nd	0.072 2	0.059 0	0.075 2	0.084 3	0.078 1	0.071 0	0.088 6	0.071 0	0.080 2
Chiricahua NM	NS	0.071 0	0.065 0	0.068 0	0.071 0	0.069 0	0.072 0	0.065 0	0.067 0	0.072 0	0.071 0
Congaree Swamp	UP	0.059 0	0.067 0	0.063 0	0.064 0	0.076 1	0.074 0	0.065 0	0.081 0	0.080 0	0.073 0
Cowpens NB	UP	0.078 1	0.086 4	0.082 3	0.083 2	0.084 3	0.080 2	0.091 5	0.096 15	0.094 9	0.088 4
Craters of the Moon	UP	nd nd	0.040 0	0.056 0	0.063 0	0.057 0	0.064 0	0.060 0	0.065 0	0.068 0	0.066 0
Denali NP	NS	0.049 0	0.050 0	0.048 0	0.049 0	0.053 0	0.053 0	0.051 0	0.054 0	0.054 0	0.038 0
Everglades NP	UP	0.060 0	0.061 0	0.064 0	0.064 0	0.058 0	0.063 0	0.066 0	0.072 0	0.067 0	0.066 0
Glacier NP	NS	0.051 0	0.051 0	0.044 0	0.055 0	nd nd	0.057 0	0.040 0	0.053 0	0.048 0	0.050 0
Grand Canyon NP	NS	0.073 0	0.074 0	0.066 0	0.073 0	0.069 0	0.073 0	0.072 0	0.072 0	0.076 0	0.071 0
Great Smoky Mtn	UP	0.079 2	0.088 5	0.088 4	0.093 10	0.099 13	0.088 8	0.098 19	0.110 35	0.106 37	0.096 12
Great Smoky Mtn	UP	0.082 1	0.075 3	0.089 7	0.088 6	0.093 12	0.092 12	0.095 20	0.106 34	0.101 36	0.096 18
Great Smoky Mtn	UP	nd nd	nd 0	0.074 3	0.076 9	0.089 9	0.087 7	0.089 6	0.106 33	0.101 29	0.100 21
Lassen Volcanic	NS	0.066 0	0.069 0	0.064 0	0.078 1	0.074 0	0.073 1	0.067 0	0.078 1	0.084 2	0.074 0
Mammoth Cave NP	UP	0.078 0	0.073 0	0.072 0	0.075 1	0.088 6	0.082 2	0.078 4	0.092 12	0.098 19	0.088 4
Mount Rainier	NS	nd nd	nd 0	0.055 2	0.067 0	0.065 0	0.065 0	0.040 0	0.051 0	0.064 0	0.057 0
Olympic NP	NS	0.041 0	0.046 0	0.042 0	0.041 0	0.044 0	0.046 0	0.045 0	0.041 0	0.043 0	0.047 0
Pinnacles NM	NS	0.084 3	0.084 3	0.060 2	0.078 0	0.083 3	0.094 9	0.076 1	0.088 5	0.082 1	0.078 0
Rocky Mountain	NS	0.076 0	0.071 0	0.071 1	0.076 0	0.076 0	0.072 0	0.070 0	0.080 1	0.074 1	0.078 2
Saguaro NM	NS	0.073 0	0.074 1	0.082 1	0.080 0	0.083 2	0.076 0	0.079 0	0.077 0	0.069 1	0.074 0
Sequoia/Kings C	NS	0.097 34	0.102 50	0.106 48	0.106 58	0.095 18	0.105 50	0.097 26	0.094 27	0.097 39	0.090 8
Shenandoah NP	NS	0.083 3	0.077 1	0.083 2	0.083 2	0.087 7	0.081 1	0.089 6	0.107 22	0.093 15	0.080 1
Theodore Roosevelt	NS	0.060 0	0.057 0	0.055 0	0.057 0	0.058 0	0.059 0	0.071 0	0.056 0	0.058 0	0.059 0
Voyageurs NP	UP	0.050 0	0.054 0	0.058 0	0.062 0	0.064 0	0.067 0	0.071 0	0.067 0	0.074 0	0.065 0
Yellowstone	UP	0.057 0	0.063 0	0.053 0	0.061 0	0.060 0	0.061 0	0.061 0	0.066 0	0.069 0	0.065 0
Yosemite NP	UP	0.098 31	0.091 7	0.063 0	0.094 12	0.091 11	0.090 10	0.081 3	0.094 9	0.085 4	0.087 6

**Notes:**

1. The trends statistic is the annual fourth highest daily maximum 8-hour ozone concentration (ppm). The number of exceedances of the level of the 8-hour ozone NAAQS is shown below the concentration value.
2. "nd" indicates no data available for that year.
3. "inc" indicates less than 90 days of monitoring data available for that year.
4. "NS" indicates no statistically significant trend (at the 0.05 level).
5. "UP" indicates a statistically significant upward trend in ozone concentrations.

**Table A-21.** Onroad and Nonroad Emissions of 21 Mobile Source Air Toxics, 1996

Compound	Onroad		Nonroad		Mobile Sources	
	Tons	Percent of Total National Emissions	Tons	Percent of Total National Emissions	Tons	Percent of Total National Emissions
1,3-Butadiene*	23,500	42%	9,900	18%	33,400	60%
Acetaldehyde*	28,700	29%	40,800	41%	69,500	70%
Acrolein*	5,000	16%	7,400	23%	12,400	39%
Arsenic Compounds*	0.25	0.06%	2.01	0.51%	2.26	0.57%
Benzene*	168,200	48%	98,700	28%	266,900	76%
Chromium Compounds*	14	1.2%	35	3%	49	4.2%
Dioxins/Furans* <sup>1</sup>	NA	NA	NA	NA	NA	NA
Ethylbenzene	80,800	47%	62,200	37%	143,000	84%
Formaldehyde*	83,000	24%	86,400	25%	169,400	49%
Lead Compounds*	19	0.8%	546	21.8%	565	22.6%
Manganese Compounds*	5.8	0.2%	35.5	1.3%	41.3	1.5%
Mercury Compounds*	0.2	0.1%	6.6	4.1%	6.8	4.2%
MTBE	65,100	47%	53,900	39%	119,000	86%
n-Hexane	63,300	26%	43,600	18%	106,600	44%
Naphthalene <sup>2</sup>	NA	NA	NA	NA	NA	NA
Nickel Compounds*	10.7	0.9%	92.8	7.6%	103.5	8.5%
POM (as sum of 7 PAH)*	42.0	4%	19.3	2%	61.3	6%
Styrene	16,300	33%	3,500	7%	19,800	40%
Toluene	549,900	51%	252,200	23%	802,100	74%
Xylene	311,000	43%	258,400	36%	569,400	79%
Diesel Particulate Matter	182,000	34%	341,000	65%	523,000	99%

\*On the urban HAPs list for the Integrated Urban Air Toxics Strategy

<sup>1</sup>Dioxin/Furans emission estimates are still under review

<sup>2</sup>Naphthalene emission estimates are currently included in POM. This will be corrected in the 1999 NTI.

